SECTION OOD

ELECTRONIC SWITCHING SYSTEM NC. 3 CFFICE DATA IABLES LAYOUT SPECIFICATION FOR CFFICES EQUIPPED WITH THE 3E3 GEMERIC EREGRAN

> A. T. S T. CC. BATING SPCS

N. E. CC. BATING SPCS

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ISSUE NOTES

	CHANGE	APERO	TANE	
ISSUE	CLASS	ZNGR	DATE	DESCRIPTION OF CHANGE
1		DSA (7127)	11-1-79	Original Issue (including LDIs 1 to 5)
2	A	JBW (7414)	2-1-80	Additional changes per LDI 5 (on pg. 200-10, valid expansion entries for 2-pty lines added; on pg. 600-6, acte for CCTBL corrected; on pg. 800-9, TLUID layout corrected). Other aiscellaneous changes.
3	A	JBN (7414)	8-1-80	Additional changes per LDI 6. Editorial corrections to (sections 106, 200, 300, 500, 500, 700 6 800). Lesign change to section 700. Add AMAXID new identifier for

SECTION 000

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GENERAL NOTES

) 1. MAIN STORE LATOUT - The following figure shows the layout of MAIN STORE in a No. 3 ESS office equipped with the 313 Genetic.

ADCRESS SIZE (K=1024) GEREBIC PROGRAM STORE 4K (4096) 40961 GENERIC ASSIGNED TEMPORARY STORE TEMPORARY STORE 32K (32768) 296961 TEARSLATION ASSIGNABLE TIBPORARY STORE (7168) 368641 GENESIC PROGRAM STORE 100K (102400) 1392641 TRANSLATION STORE VARIABLE DATA 120K HAR. (122880) 262143 BARI

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GENERAL NOTES (continued)

- TAPE INTOUTS Taps layouts describing the "TRANSLATION" file and REMARSS" file are controlled by J3H001T-1.
 The OTA must produce these two files.
- SIZE CF JEJ TRANSLATIONS The maximum size of translations is 122,880-1 words, which is a taps limit.
 The number of spars words in the "STARE'S STI plus the number of words used in translations cannot exceed
 the 122,800 1 limit (120s * 122888). See also Figure 1, Note 10 and Figure 13h, Note 3.
- 4. ORDER OF OAN PROCESSING The use of the ICS hit in CFF_DATA (Fig. 23a) to determine the default condition in Speed Call House (Fig. 2ct, once 4, lits CRF, and Fig. 2c, Note 9) requires that COFF_DATA be architechal theory of the Call Call to processed; 4.44, 253 2500 forms auto be processed Before 153 form 3100, 3165 or 3107 forms.
- (5. In this document, all numbers are given in decimal, unless otherwise qualified. The suffix K equals 1024 (as in 136K = 139,264).
 - 6. In this document, whenever m 8CD 0 is to be stored, it is stored as a binary 1010.

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PA-3H303 SECTION 100 MASIES TAPLE INCEX INDEX OF FIGURES Figure 1 - MTI (Alphabetical, Sequential) ISSUE 3 PRINTED IN U.S.A. PAGE 1

SECTION 100

FIG. 1 MASTER TABLE INDEX (MII)

TYPES OF MTI ENTRIES:

SI = Entry Size Indicator (see MULT below).

JUSTIFY Geed when ROTATE = 1. = 0 Do not right justify the entry. = 1 Bight justify the entry.

HULT = 0 If ROTATE = 0, then ESI = log (eo. of words per entry).

If SOTATE = 1, then ISI = log (no. of entries per word).

2

1 SULTIPLY - ISI = eo. of words per

table entry - 2.

ROIATE See BULT above.

S-I = 0 Translation Table - ISI =

(eee SULT above).

IYPE = Type of translation table. If there is only one type, TIPE = 1.

TS = 0 Address points to program store. = 1 Address points to temporary store.

IE = 0 Treneletor is not defined. = 1 Trenslator exists.

"NO. OF = Number of entries -1, if XI=1 ENTRIES"= zero, if XE=0

SECTION 100

FIG. 1 (continued) - MASIES TABLE INCEL (MIL)

ALPHABETICAL LIST OF THE MIL:

TRANSLATOR	SITE	STABILNG		
BABE	TROFTET	FOCULTOR	SECT-FIG	HOTE
ALITWRD	1	920075	700-25	
ANA BOF	3	421124	700-24	
AMATID	2	921100	700-230	
ARIEXP	3 2 3	921902	600-18A	
BOSCAN	1	420101	800-35A	
CALLBACK	í	421304	700-28B	
CCTBL.	_			
	j.	421333	600-16B	
CDIEXP	3	421371	600-16A	
CFLST	3 3 3	421322	300-8B	
CFTBL	3	421127	300-8 A	
CHARGETS	16	920102	600-19	
CKTSCAN	258	420122	800-34	3
CLSRY	. 8	420524	800-34 800-33A	
CODLST	3	921325	400-118	
CCINSTAT	3 3	921135	300-98	
			111	
COINTRIP	3	421405	300-9 A	
CP_FEN	1	420534	800-35F	
CUISTAT	3 7	421341	700-27	
DSTBLK	7	420535	800-33C	
DIDACTA	1	920544	700-233	11
ECIOCHAN	3	420000	800-298	2,11
ECHISHCD	1	420074	800-29G	2,11
EQPT_PE	32	420545	800-358	
EXPIBL	3	421440	400-338	
FATTBL	12	921355	600-16	
	1.4	421333	600-16	
FETL	2	421073	700-238	
GRPSTAT	12	421140	500-13	
GRPIBL	1.2	421410	500-12A	
IBLK	3	420605	800-33B	
1 NTCHG	1	420610	600-19A	
LNPATBL	4	420611	700-228	
JCT_RATE	1	420076	700-22B 700-26A	
LCCTBL	3	421336	700-264	
LOG SCAN	3	420615		
LSTTSWED	2		800~35B	
TOTION BD	2	420011	800-31A	2

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FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

ALPHABETICAL LIST OF THE BIL:

RANSLATOR	SI 2E JHORDS1	STARTING LCCATION	SICT-FIG.	HOT
BEHLST	12	421424	500-15	
MASTYPE (SPAR	(E) 1	420616	800-35H	
BETSL	3	421132	300-7	
MSGCL	46	420617	700-28A	
NT_FES	1	420677	€00-35G	
NETHEOPT	1	420700	800-35C	
WETWAT	1	420701	800-35D	
NOCBCD	8	420702	700-22A	
NOCD	24	421451	400-10A	
NCIEST	4	421066	700-23G	
MPAPAT	4	420712	700-22C	12
CFFICE	e	420721	700-23B	
OFF_DATA	3	420716	700-23A	
OIEXP	16	420731	200-2E	
BIEAS	3	421377	600-18	
SEILIBL	3	421330	200-20	
SCHEDINH	16	420751	700-26D	11
SCRSIZE	1	420771	700-23E	
SCILST	3	421314	300-5	
SC2LST	3	421317	300-6	
SCTOLS	3	421374	600-17	
SKEGBLK	15	420772	800-33E	
SPARES	3	421633	800-31D	7
SPDATA	18	421102		
SPIBL	3	421443	200-2	
SPINPHII	90	421157		6
SFXLANTI	90	421501		
SIRLIN	(2)	421637	€00-31B	
SIRLBT	3	421636	600-31B	5
SVC_RATE	1	420077	700-26B	
SVCTBL	3	421446	200-4	
SV_TBL	(2)	421447	200-4	
TAPEOPTS	1	420003	800-30A	

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FIG. 1 (continued) - MASTER TAPLE INDEX (MTI)

ALPHABETICAL LIST OF THE STI:

	TRANSLATCE NAME	JEGEDS1	STABTING LCCATION	SECT-FIG	NOTE
	TAPEQUE	1	420004 420005	800-30B 800-30C	2 2
	TAPETBL TLTPL TLUID	3 2 16	420006 421064	800-30D 700-23F	2
	TOTANTBL	3	421044	800-33D 500-12E	
	TRAFD TRK_RATE TRKSCAN	27 1 (192)	421011 420100	800-33F 700-26C	
	TSFABE	3	420224	800-34 800-31C	3
-	TUTTL TICPBS WEECH	33	#21072 #20033 #21075	700-231 800-29A	,
	WPTBL	16	420013	700-23C 800-32	
	1DGTBL 3PCSTAI	3	421352 421154	600-20 500-14	2

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PIG. 1 (continued) - MASTES TARLE INDEX (MTI)

SECUENTIAL MEMORY LAYOUT OF THE MIL: (MOTE 11)

LOCATION	TRANSLATCE	SIZE (MCBDS)	HOTE	
420000	ECIOCHAN	3	2,11	1
420003	TAFECETS	1	2	1
420004	TAPEOUE	1		
420005	TAPEOSC	i	2	1
420006	TAFFIEL	3	2 2 2	i
420011	LSTISHED	2	2	!
420013	RETEL	16	2 2	1
420033	TICPES	33	4	:
420074	ECHISECD	1		1
420075	ALITHE	i		1
420076	JCT SATE	1		1
920077	SVC_FATE	i		
420100	IBE BATE	i		1
920101	BCSCAA	i		
420102	CHARGETE	16		i
420122	CKISCAN	258	3	CONTAINS
920229	TRESCAN	(192)	3	DATA
420524	CISBY	8	,	1
420534	CP_FEE	1		
420535	ESYBLE	i		i
420544	ETEACTA	1	11	!
420545	ECET_EC	32		
420605	IFLK	3		:
920610	I KICHG	1		:
420611	LPEATEL	4		i
420615	LCG SCAN	1		1
920616	HASTYFE (SPAGE)	1		i
420617	MSGCI	48		i
420677	NT PER	1		i
420700	MEIWECPT	1		i
420701	NEI NHI	1		1
420702	NCCBCE	8		i

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FIG. 1 (continued) - MASTER TABLE INCET (MII)

SEQUENTIAL MEMORY LATCUT OF THE MIL:

	1			
STARTING	TRAKSLATOR	SIZE		
LCCATICH	3.003	1908DS)	HCTE	
420712	NEAFAT	4	12	1
420716	OFF_DATA	3	1.6	1
420721	CIFICI	8		1
420731	CIEXE	16		1
920751	SCHECINH	16	11	1
420731	SCHELINA	16	11	!
420771	SCRSI2E	1		i
420772	SFECBIK	15		1
421011	TEAFE	27		CONTAINS
421044	TICID	16		DATA
421064	TITPL	2		1
421066	NCIEST	4		1
421072	16111	1		!
921073	FITL	2		1
421075	b E P C B	3		1
		2		1
421100	TITASA			1
421102	SFDATA	18	6	.]
421124	AMA_BUS	3		i
421127	CFIBI	3		i
421132	16138	3		i
421135	CCINSTAT	3		CONTAINS
421140	GFFSTAT	12		TEMPORARY STOR
				ADDRESSES
421154	3FCSTA1	3		1
421157	SEINFRII	90	6	1
421311	TSPABE	3	7	.]
921314	SC 1L ST	3		
921317	SC2LS1	3		i
421322	CFIST	3		
421325	CCLLST	3		
421330	SEILTEL	3		
				i
421333	CCTBL	3		CONTAINS
421336	LCCTEL	3		PROGRAM STORE
421341	CUISTAT	3		ADDRESSES
421344	CALLBACK	3		1
421347	TCTARTEL	3		i
421352	116181	3		1
121355	FATTEL	12		1
421371	CDIERS	3		1
421374	SCIBLS	3		
421379	SCIBLS	PRINTED II		-3
		CHISTED II	Ua Ja Aa	

FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

SEQUENTIAL MEMORY LAYOUT OF THE MIL:

STABTING LOCATION	TRANSLATOR FASE	SIZE (NORDS)	NOTE	
421377	SIERE	3		1
421402	ABTEXP	3		
421405	CCINTEIP	3		1
421410	GRPTEL	12		
421424	HEBLSI	12		i
421440	SABLET	3		CONTAINS
421443	SETBL	3		PROGRAM STORE
421446	SVCIBL	3	4	ADERESSES
921497	SV_1EL	(2)	i i	1 205053353
421451	N CC D	24		i
921501	SFILANTI	90	6	1
421633	SEARES	3	2	1
421636	518121	3	5	;
421637	STRLIM	(2)	5	

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-3H30	3 SECTION 100
	550102 100
FI	G. 1 (continued) - MASIER TABLE INDEX (MIX)
101	RES:
1. res	The flaster Table Index (fill) is a fixed area of program etors which contains or provides linkage to the various parameters and tennulation date for the generic program. This area is used for the fill eatries listed or served for future fill entries. This area may not be used for any other purpose.
2.	These data words are generic defined and are not changeable through the recent change prograes.
3.	CKTSCAN includes the 192 words for TBKSCAN.
4.	The 3 words for SYCTBL includes the 2 words for SY_181.
5.	The 3 words for SIBLMT includes the 2 words for SIBLEM.
6.	There are 20 space words of data, 30 space 3 word BTI entries for temporary store and 30 space 3 word BTI entries translation store.
7.	There are two 3 word BTI entries, jone for temporary store and one for translation etorej giving the auglet of spa words in each store in the first word.
8.	Iventy hits are required to address a word in Frogram store (PS) or Temporary Store (TS). Bits 0-3 of word 1 in t SII eatry are concatemated in fromt of word 2 to form the 20 bits of the extended address. The address may not be 0. If the translator does not exist (IE-0), the address must point to where it would have pointed if the translator did exist (i.e., it points to the same location as the next existing NII eatry).
	STORE ADDRESS
	1 3 MORD 1 0 15 HORD 2
9.	To satisfy "REALLOCATION" regairements, see Figure 1A.
10.	The RTI aust start on a 4K boundary. For JE3, the RTI etarts at 136K (octal 420,000]. The last word of TRANSLATION store in the last word of TRANSLATION store in the last word of PRISTICAL etors, or 256K-1 (octal 7777777), whichever is less. See also Figure 319 and Section 500, hold.
	(continued)

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FIG. 1 (Continued) - HASTER TABLE INDEX (MII)

NOTES: (continued)

11. Data words are not Recent Changeable for 3E3. The data is imputted or changed by a translation overwrite. 12. Data used by Office Records only. Inputted by ODA or Recent Change.

FIGURE 1A - STORE ORGANIZATION

1. Translation Store Organization

A. General

Translation store consists of the Master Table Index (MTI), followed by variable length data tables pointed to by the MII. The MII is at a fixed location, and is of fixed length, for all offices or a given generic. The variable data tables (both quantity and size) depend on the data required by an individual office. Several different data structures can exist in bo. 3 ESS. These are shown in Figure 18.

The STI contains either data (as in A and B), address pointers to leaporary Store (TS) (as in C), or address pointers to Program Store (PS) translators (as in D, E, P, and G). A PS translator may be eithers

- 1. Cate (as in H).
- 2. Vacant (as in E). A bead table containing FS increaents to subtranslator(s) which
 - contain the data (as in I, J, and K) .
- 4. A head table containing ES increments pointing to subtranslator(s) which contain PS increaents to sub-subtranslator(s). 1 is a head table with increaents pointing to subtranslator 5 (with subsubtranslators W and C) and to subtranslator P (with sub-subtranslators C and F).

The lowest level subtranslator at any point always contains only data while higher level subtranslators contain PS increments and possibly some minor amounts of data.

B. Allocation Bules

To allow for proper reallocation, the rules for allocation of translators are as follows:

1. The HTI is organized with all data entries first, followed by all TS pointer entries, followed by all PS (translator) pointer entries.

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FIGURE 1A (continued)

 Complete translators (as defined above) must be allocated in store in the assected as the MII entries, beginning after the last MII entry. All use of FS translation store must be contiguous.

- Once allocation of a translator is started, it aust be completed before another translator any be started. For example, B aust precede I and all its subtranslators. Befar to Figures 18 and fc.
- 4. All PS address pointers in the MII aust be nonzero. If the translator does not exist, (i.e., Neo) in the BII forest), the address pointer aust point to the location where the next existing (i.e., Nr.1) transistor resides (so in B).
- 5. Within a translator consisting of a head table and subtranslator (s), the PS increasents in the head table aust occur in increasing order, i.e., vithin a head table the second PS increasent encountered must be larger than the first PS increasent encountered, etc. This says that ambitranslators must occur in the order in which they are referent to the property of the propert
- 6. Logically extending rule 5 to the case of sub-subtranslators pointed to by subtransiators yields the case that all sub-subtranslators of a subtranslator be allocated before the next subtranslator is allocated.

The above rules yield the following general rule:

as you progress through the STI, all PS addresses escountered aust be someto and be larger than the previous address escountered; and as you progress through the resulting translators, once a head table, subtramplator, or sub-subtramplator is started, all other translators at a lower level ams the finished before acriss on to on another translator at that mase lavel (see Figure 15).

C. SCCD Translator

The only specific case of rule 6 above is the MOCD (4-digit) transintor. A specific rule covering this translator follows:

Each Masher Group Table (MGT) is followed by the first assigned Thousands Group Table (TGT). Each TOT is followed by the Nundreds Group Tables (MGT), assigns of Ot tables, associated with that TGT, Alter the GT, the MGT of tables for the GT, the next MGT fellow with its TG and MG table.

FIGURE 1A (continued)

D. Hember List Indexes

The seaber list indexes sust be in increasing order with respect to increasing group number for each group MTI. For unassigned groups the seder sit index sust point to where the seaber list would start if the group existed, i.e., it prints to the same PS location as the next ansigned group.

2. Temporary Store Crossization

A. General

The TS pointed to by the BTI is all ODA assignable based on input data from ESS 3111 forms. To allow proper reallocation, the rules for allocation of TS are as follows:

- All STI pointers to temporary store must point to increasing TS address in the same order as the STI entries are ordered. All use of TS translation store must be contiquous.
- Ali IS address pointers in the HII sust be nonzero.
 If the IS area does not exist (i.e., IZ=0 is the
 HII format), the address pointer sust point to the
 IS location where the next existing CDA assignable
 IS resides.

B. Selection Status Block Indexes

the selection status block indexes sunt he in increasing order with respect to increasing orgon number for each group MII. For unassigned groups the selection at each block index numt point to where the selection status block would start if the group existed, i.e., it points to the same IS location as the next sasigned group.

PA-38303 SECTION 100 PIGURE 18 - TRANSLATION STRUCTURE TYPES A DATA B DATA 1 TS |----> | C | POINTERS | DATA 1____1 PS (------) [H D | POINTERS | DATA 1_____1 1 PS (VACANT) E | POINTERS | POINTERS | PS | DATA F | POINTERS | INCREMENTS | 1-----> 1K |-----> | PS |-----> |L PS |----> | G | POINTERS | INCREMENTS 1----INCREMENTS 1 DATA ---> | P PS |----> | DATA INCREMENTS 1 DATA ISSUE 3 PRINTED IN U.S.A. PAGE 13

FIGURE 1C - TRANSLATION OBGANIZATION

	1	(contin		
TRANSIATES #1	В		CATA	_
	- 1	PS	FCINTEES	1
E E	G	PS	PCINTERS	> L
I B	2	PS	POINTIBS	>'I
I E	8 1	Fs	POINTERS	> I
T A B	D 1	₽S	FOINTERS	ј> н
B	c	15	POINTIRS	> 70 7:
A S T		15	POINTERS	
в	В		DATA	
	A		DATA	

		(continued from left)	!	
TRANSLATOR	1	PS INCHEMENTS	>	
#2	J	DATA		
	K	DATA		
	L	PS INCHEMENTS	>	
	8 1	PS INCREMENTS	>	-
TRANSLATOR	1	DATA		
#3	0	DATA		
	P	PS INCREMENTS	>	-
	0 1	DATA		
	R	DATA		
	1		l i	
	7			

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SCAR FOINT TEANSLATIONS

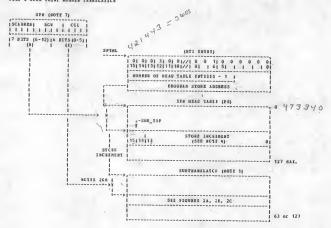
INDEL OF FIGURES

Figure 2 - Scan Point Sumbet Translation - Subtranslators Special Billing Table for WATS Office Index Expansion Figure 3 - (Daused) Figure 4 - SIR Translation - Service Circuit Table

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FIG. 2 SCAN POINT NUMBER TRANSLATION



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FIG. 2 (continued) - SCAN POINT NUMBER TRANSLATION

NOTES

1. The LINE and UNIVERSAL Subtranslators consist of 2-word entries. The MISC Subtranslator consists of 1-word entries.

2. THE for BISC Subtranslator.

I=2+I for LINE and UNIVERSAL Shitreaslators.

3. SUB_TYP (Subtranslator Type) identifies the type of subtranslator which is being addressed.

SUB_TYP = 0 Unassigned subtranslator = 1 Hiscellaneous subtranslator

= 2 Universal subtranslator

= 3 Line subtranslator

- 4. Words 4-6 in the SPB HEAD Table point only to RISC Subtranslator. Words 14,22,30,38,...in the SPB HEAD Table ore associated with junctors which are not translated is this table and therefore are usussigned if they are allocated. All other words in the SPB Head Table point to either a LIBE or DHYMERSAL Subtranslator.
- 5. There say be a maxisum of 128 words in the SPN HEAD Table.
- 6. Address of subtranslator equals store address + # + store increment.
- SCAN Point Number = Terminal Equipment Number for Networks 1 to 15. There are no IBN'S for scanner 0.

BH, 6		1	ANNE	8		1	ŧ	BCB	t	1	1	1 CC	LORI			
	12	1	CG	1	9	18	98 (7	1 C	15	SW1	13	12	L	IL I	0	 Always stored in Translations
DE 1		,	CG	1		C	1	SI	1	SWI	1	!	L	IL,		 Used on Recent Change and Impnt forms

SWT = Switch (0-7) SW = Switch Group (0-2)

C = Concentrator (0, 1) CG = Concentrator Group (1-15) [Metwork]

- Bultiport rules for terminal sgaipment number. (See also Figure 12C, Notes 3 and 4) Fort 0. 1 and 2 TERMs are identical except that:
 - PORT 0 must have C = 0 PORT 1 must have C = 1 PORT 2 must have C = 0 6 SWT = (SWT of PORT 0 +1)

FIG. 2A SCAN POINT NUMBER TRANSLATION - MISCELLANECUS SUBTBANSLATOS

			MISC SUBTRANS	LATOS	
PRCM SPN	15 14 13	3 12 11 10	9 8 7	6 5 4 3	2 1 0
IEAC TABLE		1 1 1	1 1 1	1 1 1	1 1 1
	ACTIBPT				
		USERID	ILL INTEL	1///	//////////////////////////////////////
	Ī				:

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PIG. 2A (continued) - SCAN POINT NUMBER TRANSLATION - MISCELLANEOUS SECTRANSLATOR.

NCTES:

1. LIST OF ACRONYNS

	!	1	ESS FCE	1	
ACRONTS	RC PROG .	Ю.	ITEB C	LUNH (S)	DESCRIPTION
ACT	RC:SP	3506	i _ i	38	Active: ACT = 1 SFR is active
ALd	RC:SP	3506	-	26-33	Alars indicator: ALE = 0 No alars. Alara class code not used. = 1 Alars. Alara class code is used.
ALMCLS	RC:SP	3506	-	26-33	ALM class (17pe): ALMCLS = 0 Alexs circuit
LL	RC:SP	3506	-	34-35	Last Look indicator: LL = 0 Normal state open = 1 Normal state closed
RPT	RC: SP	3506	*	36	Paport: RPI = 1 Report SPN state change. This bit is the highest bit of the USFRID. It will be set for USFRID greater than 31.
USERID	RC: SP	3506		36-37	USER Identification rusber.
					00-12 Type of fixed system scampoint 12-44 Type of fixed system scampoint 45-47 Amelgents 48-59 Type of fixed scampoint 59 Amelgents 60-63 Type of fixed scampoint 60-63 Type of fixed system scampoint

2. A Miscellaneous Subtranslator contains data for 69 miscellaneous scan points in 8 consecutive rows. Each group of rows 16-19, 20-23 and 24-27 in MSOO require a Biacellaneous Subtranslator. Therefore, there can be a maximum of 3 Miscellaneous Subtranslators.

Each word in a Miscellaneous Subtranslator contains data associated with one miscellaneous scan point in 8800.

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FIG. 28 SCAN POINT NUMBER TRANSLATION - UNIVERSAL SUBTRANSLATCH

UNIVERSAL SUFIRANSLATCE

0----0

TABLE OR SV_TBL 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 0 1 0 1 0 1 0 -----1------0-----TERBINAL EQUIPMENT NO. 0 1 0 1 1 1 _____ 1 MEMBER NC. 1 GRCOP NO. 101 L--->|----U TYP | TERMINAL ECUIEMENT NO. 0 1 1 1 0 1 -----A MEMBER NC. 1 GEOR NO. 0 1 U TYP # 1ST TONE SEN 0 1 1 1 1 1 0-----_____ U_TYP 1 SUPERVISORY SEA 110101 0-----U_TYP 1///1 SKEY 1//////1 FEX GROUP NO. \$ | 0 | 4 |/// 11 | | B |///// 5 | 1 | 1 | 1 | 0 | NUMBER OF LINES USING SPW 111101

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                                                                                                      SECTION 200
       FIG. 28 (continued) - SCAN PCINT NUMBER TRANSLATICS - UBLYERSAL SUFTRANSLATOR.
       HOTES:
       1. LIST OF ACRONYNS
                                    ESS PCER
            ACRONYS | BC PRCG | NO. | ITEM | COLUMN (S)
                                                                              DESCRIPTION
         1
           U_TYP
                                                     Universal Subtranslator Type
                                                           U_TYF = 0 Unassigned
                                                                = 1 Supervisory SPN entry for trunks and service circuits
                                                                    with a single terminal equipment no. (See Note 3)
                                                                     (See Figure 12C, Notes 3 and 4 for Millipatt and
                                                                    Transmission Test Ckt.)
                                                                 = 2 Supervisory SPN entry for service circuits with 2
                                                                    terminal equipment anabers. (See Note 3)
                                                                = 3 Tone present SPN entry.
                                                                 # 4 Cirected SPN entry.
                                                                = 5 PER Key SPH estry-
                                                                = 6 Key SPN entry.
           TERMINAL
                       RC: CKT 3201
                                             22-27 Office equipment number.
           EOUIPHENT
           NO.
           MEMBER NO.
                       BC:CKT 3201
                                             40-42 Trunk group member number.
           GROUP NO.
                       RC: CKT 3201
                                                    Trunk group number.
           1ST TONE
                       8C±CKT 3201
                                             51-56
                                                    The SFN of the first directed scan point.
           SPN
           SUPERVISORY RC:CRT 3201
                                             45-50 Supervisory SPH.
           SPN
           BUNBER OF
                       RC:LINE 3107
                                             55-60 Indicates the number of lines associated with the same SPB.
           LINES USING
           SPH
           PBK GROUP
                       BC: BLBG 3576
                                                    FBE Group Sumber.
                                             28-30
           NO.
           SKET
                       RC: BLBG 3576
                                              27
                                                    SFE Status Key Index.
                                                        SKEY = 1 thrn 7 Remote Sake Busy Feys
                                                            = 8
                                                                       Hight Stop Key
                                                            = 9
                                                                       Stop Bant Key
```

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FIG. 28 (continued) - SCAN POINT NUMBER TRANSLATION - UNIVERSAL SUBTRASSLATOR.

NOTES:

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- 2. A Universal Subtranslator contains data associated with 64 scan points in 4 consecutive rows. Each scan point
- 3. Tones, announcements and conference circuits are translated in Figure 2C.

FIG. 2C SCAN POINT NUMBER TRANSLATION - LINE SUBTRANSLATCS

SEE LINE FIG. 2 SUBTRANSLATOR		15 FOSSIBLE LIBE ENTRIES (NOTE 1) 0	
2+x 1	UNASSIGNED	0	
	NCRMAL LINE	0 EL GST // OBAJ TTC SCB 15 14 13 1// 11 7 6 5 0	
1	WITHCUT EXPASSICA	BILLING/DIBECTORY WORD (NOTE 2)	
ļ <u>-</u>	NOBNAL PBX/MLHG	1 0 0 0 TEF BHL	
127	E DE / HEBO	BILLING/EIRECTORY WORD (NOTE 2)	
Lancostanona	TONE 6 AND	1 0 1 1 1 1 1 1 1 1	
		1///1 TER GSF 1///14 8 7 0	
	TBREE PORT	1 0 1 1 1 1 1 1 1 1	
	CIRCUIT		
	NON-LINE	1 0 1 0 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	
		SSP / / / / / SP / DSP	
	NORMAL LINE WITH ELPANSIGN		> B (1,2, . 4 or 8 word expansion)
	22283208	BILLING/DIRECTORY WORD (NOTE 2)	er hene 10m
		(continued)	

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PIG. 2C (continued) SCAN POINT TRANSLATION - LINE SUBTRANSLATOR

	POSSIBLE	LINE ENTRIES	(continued)	1	1	
2 PARTY LINE	1 1 1 0 1 1 1	TABLE NC.	7 6	ENTRY NO. (NOTE 10)	0		A (% word expansion)
	0 (////////////////////////////////////	,,,,,,,,,,,,	111111111111	/// TT2 TT1 /// 3 2	CDPR 1 # 0		
4 PARTY LINE	0 ELIGST /// 15 14 13 /// 11	CRNO	7 6 5	SCR	0		
	1 /// SS SGB 1///		1	SHIRY NO. (NOTE 10)			F (4 word expansion)
	0 ELIGST //	CHAJ	ITTCI	SCR			
WITHOUT	1 (///[SS SCB	TABLE NC.	1	ENTRY NO. (NOTE 10)			G (2 word expansion)
PBI/81HG MEMBER WITH DIFFEBENT	1 1 1 1 1 0 1	TABLE NO.	1	ENTRY NO.		>	C (1,2,4 or 8 word expansion)
DATA PROM GROUP DATA	DIL	LI MG/DIBECTC	N WCED (NCT	E 2			
NORMAL LINE	0 EligSi /// /// 11	CEYJ	7 (6 5	SCR	0		
AUTO	1 (//////////	TABLE NO.		ENTRY NO.		>	J (4 word expansion)
LINE EXPANSION AUTO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TABLE NC.	1	ENTRY NO. (NOTE 10)			H (2 word expansion)
	1 1/////////	TABLE NC.	1	ENTRY NO. (NOTE 5)			J (4 word expansion)
4 PARTY LINE NITH	111111	TABLE BC.	1	ENTRY NO. (NOTE 10)			D (2 or 4 word expansion)
EXPANSION	1 (///[SS [SOB]	TABLE NC.	1	ENTRY NO. (NOTE 10)		>	P (4 word expansion)
	1 1 1 1		1	ENTRY NO. (NOTE 10)			D 12 or 4 word expansion
EXPANSION	1 (/// SS SOB	TABLE NO.	1	ENTBY NC. (NOTE 10)			G (2 word expansion)

PA-3H303 SECTION 200 FIG. 2C (continued) SCAN POINT BUNBER TRANSLATION - LINE SUBTRADSLATOR RING 2 PARTY PYPARSTON POSSIELE ENTRIES (NOTE 4) 11111 |---- | | | | 0 | EL | GS|///| GHAJ | TTC| SCR | | | 15 | 14 | 13 | ///| 11 7 | 6 | 5 DILLING DIRECTORY WORD (NOTE 2) BILLING/DIRECTORY WCRD (NCTE 21 LINE EXPANSION (HOTES 4 & 5) | ESC|EL | GST|///| CSAJ | TTC| | 15 | 14 | 13 | ///| 11 7 | 6 | 5 BORNAI LINE . 1 . 1 PLUS 0,1,3 OR 7 LINE DATA WORDS (TYPES 0-10,12 SEE PAGE 13) PHI/NIHG PEX/NLBG EXPANSION (NCTES 4 & 5) 115 | 14 | 13 |/// 111 PLUS 0, 1, 3 OR 7 LINE DATA SORDS (TYPES 0-8, 11, 12 SEE PAGE 13) 4/8 PARTY 2,4 OB 8 PARTY LINE EXPANSION (NOTES 4 6 5) 0 (EL |GST|/// OBAJ |TTC| SCR 115 114 113 1///111 7 | 6 | 5 PLUS 1 OR 3 LIME DATA HORES (TYPES 0,7,8, 12 PCR 4/8 PARTY-SEE

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PLUS 1, 3 OF 7 LINE DATA WORDS (TYPES 0,3,4,7,8,12 FOR 2

PARTY - SEE PAGE 131

PRCH	BILLING/DIRECTO	ST NUMBER EXEAMS	SIONS			
NOTE 2	B/D 15 14		IRECTORY NO.	(NOTE 3)	0]	
PROB						
NOTE 2	0 1	BILLE	NG NO. NCTE]	
	0		CTOFF RC. ()			
4/8 FTT						
,	0	IRE	CTOBY NO. 18			
	0		CTOBY NO. (N			
	111	UNAS	SIGNED FORMA	1		
	0 1		CTCSY NC. 13	CTE 3)		
8 PASTY						
•	1 1////////////////////////////////////	1 1ABLE NO.	7 6	ENTRY NC. (NGTE 10)	0	> F 4 word expansion
	1 1////////////////////////////////////	1 TABLE NO.	1	ENTRY NC. (NCTE 10)		> f 4 word expansion
FROM WCRD 0					-	
AUTOCONNECT	0 EL GST /// = 0 = 0 ///	[CMAJ ≈ 29	TTC 7 = 0 5	SCR	0	
	1 0 1 1 1 115 12	1///1 DIS	IBIBUTCR IFI	FLET ADDRESS	0	

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FIG. 2C (continued) SCAN POINT NUMBER TRANSLATION - LINE SUBTRANSLATOR

.3	FROM WCRD 1		15.	14.	13.	12.	11.	10.	9 .	. 8	. 7		6	•	5 .	4		3		2	1	0
•	AUTOCONNECT	0	1					EILLI	Be	NOS	BEB	(NO:	E	3)							į
		0	1				1	RIGGI	EB 1	UAB	ER	0	(Ri	TE	3,	12)		,		 	 -
		0	1				ī	RIGGI	ER 1	ONB	ER	1	(#	DIE	3,	12)				 	
		1 1		1	1	1 1	1	TABLI	3 36	0.	7	16					TR				 	 0

----> K (4 word expansion)

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0		0	14	1	0	١,	0	111					VA	CAN	ī				• • •				0																
1	-	0 [0		0		1	111	TA	LE	NO.		7	I I 6				ENT	TRI	1 BC	•		0		>	(2,	4 or	8 1	bzo	ex	pans	ion	1)						
																									>	CFT	BL (2	IG.	84)	OB	CFL	ST	(PI	G.	88)	,			
3	1	0 1	0	1	1	ŀ	1	111				1	EOF	INA	RE	DE	6	REG	3)				0		-> #	BTB	L (PI	G. 1)										
4	1 (0 1	1	1	0	ŀ	0	///l	0			18	160	WAR	E	2 B	81	EG	01	A)			0		-> E	EQPT.	PD (FIG.	35	E)									
5	1 1	1	1	1	D	i	1	ITT I	D					(5	PEI	L D	CAI	LL	8)				0		-> S	SC 1L:	ST (F	IG.	5)										
6	0)	1	1	1	i	0	CHP;	0					128	ERE	P C	ALI	DEX	30)				0		-> S	SC2L:	ST (F	IG.	6)										
7	I	D I	1	1	1	1	1	1///1	0				ıs	LEE	V E	P LE	AD	HOT	E A)	11)			0		-> E	QFT.	_PD (I	FIG.	35	E)									
8	į 1	1 1	U	i	0	ŀ	0	/// ///	0	11	IOI S	E	88	ONI	11	PU LI	NE.	CI	3 2 1 6 C	11) UI1	Y D	(43	0		-> E	EQPT.	_PD (1	FIG.	35	E)									
9		1 (0	1	0	ŀ	1	111		((10	16	IP 9	LET A C	II B 9	3 G	1				2	1 T F	0							_									
10		1	0	1	1	1	0	111	TAI	LE	NC.		7	1 6			1	ENT	te	10)	•		0				HOT LINE	1		0	DI								
11		1	D	1	1	1	1	111	-	BA.			7	127	C I	5				SCF			0	INCIE	6)			1	IG	9	11 DI	G 5	5 1	D	IG (6	D:	IG.	
	i 1	1 1	1	1	0	1	0	////	11	11	111	11	111	///	111	11	11	///	"	111	//1	1 806	AL					1			DI								""
			LI	N E	EA	TA	9	ORD II	FE	NU:	1818																				////								

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FIG. 2C (continued) SCAN POINT NUMBER TEAMSLATION - LINE SUBTRANSLATOR) NOTES:

ENTRY	DATA NAME	i	KEYACRD	80.	17770	ICCI UNE	DESCRIPTION
NCPHAL LINE	FEL IGST IOHAJ ITTC ISCR	RC:LINE BC:LINE BC:LINE BC:LINE BC:LINE BC:LINE	IEL IGST ILCC ITIC ILCC	3100-1 3100-1 3306-1 3100-1 3306-1		136 135 125-26 137 129-30	Essential line (Class A service), (Goond Start Line, (Catalan Language Control of the Catalan Code, (Catalan Line, (Catalan Li
NOR HAL FBX/NLHG	TER BBL	FC: HTL	TER TER	3100-1 3100-1 3100-1		148-49 146-47	Nulti-Line bunt group terminal number. Fulti-line bunt group number.
TONE SANK CIRCUITS	ITER	BC:CKT	TER	3201-1		140-42	Tronk group terminal member number.
THREE PORT	ITER IGRP IECET NO.	RC:CKT	GRP FC51 NO	3201-1 3201-1 3201-1	==	140-42 137-39 136	izruak group terminal (member) number. Trunk group number. Port Amber (0-2).
NCH-LINE	ISSP I I I ISP IDSP	RC:CKT	SP	3201-1 3201-1		1 1 1 1 145-50 151-56	Supervisor; seem point flag ISSP = 1 2nd word constains the circuit's Separvisor; scam point nurbac. SSP = 0 2nd word constains the circuit's directed scam Comparisor of the constaint
LIME EXPANSION INCLUDING	BLN			2100-1			Special Toll Billing (QZ billing).
E & PARTY LINES)		RC:LINE RC:HING RC:HPTY RC:HTL RC:INOPTY	SOB				Service Observing feature. This hit is recent change- able only. It is not set by the GDA.
	SS 	BC:LINE BC:BPTY RC:HTL RC:TWOPTY RC:NLHG	SS				Special studies feature. Recent changeable only.

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PIG. 2C (continued) SCAN POINT TRANSLATION - LINE SUBTRANSLATOR

NOTES (continued):

.....

ENTRY	DATA NABE	IN TUGUL	KEYNCRD		ITES	CCLUME	DESCRIPTION
2 PARTY LINE	CDPR		CDPR				Irit code that indicates the type of customer dial pulse receiver to connect to the two party line. 00 = Irror 01 = Attach a Touch Tome receiver desied or one is upassiqued and the other in desied.
	TTC	BC: TWOPTY	ITTC	3100-1		137	Touch Tone service.
PBI/MLHG HEMEER WITH DIFFERENT DATA FRCF GBCUP CATA	TN	BC:HTL		310D-1 3107		17-23 17-23	Directory number (NOTE 2)

For lines with expanded billing information entry contains table and entry number. The high bit (bit 15) indicates
if the word contains the TW or a table and entry.

HIGH BlT =		word cont								ISCBI		TAEL	E NC.		1					NO.			(1 or 2
	1	word cont	tains	table	and	entry.	115	1 11	4 1	112 1	11			7	1	6		(PCTE	10)	0		sorg ex.
							1															1	pansion)
							1 0	1			PACK	E II	ILLING	BUI	BBE	8 0	DR 1	IN (BOTE	3)		1	
							115	11	4												0	1	
																						4	

3. Packed birling or directory number. Office index = 0 is not used.

Packed special billing number. Office irder = 31 is not expanded but indicates a special billing number (ie, for WATS).

	,===========				
IG.	2E1 < CFFICE IBDEI	= 311	SBINDI	>SBILTBI (FIG.	2C)
	114	10 19		0 1	

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FIG. 2C (continued) SCAN POINT NUMBER TRANSLATION - LINE SUBTRANSLATOR) WCIES (continued):

- 1			I IMPUT N			 	
-		I CATA NAME	1	ARRYSCHO		 	DESCRIPTION
	EIFANSIOK	IOHAJ ITIC ISCR	RC:INOPTY RC:LINE RC:INCPIY RC:LINE RC:INOPIY	ILCC ITIC LCC	3100-1 3306-1 3100-1 3306-1	 36 25-26 37 29-30	[Essabtiel line [Class A service] [IL-1]. [Originating Major Class Code. See Mote 13. [Touch Tone Calling feature (11C=1). [Scteening Class.
12	LINE	ESC	RC:LINE RC:LINE RC:HPTY	ESC	3100-1 3100-1	 144	Three Way calling feature (ESC=1) [Essential Line (Class & service) (EL=1).
-		IGST OHAJ TTC	BC:INCPTY BC:LINE BC:LINE BC:LINE BC:HFTY	GST LCC	3100-1 3306-1 3100-1	 25-26	 Ground Start line. Criginating Bajor Class Code. See Note 13. Touch Tone Calling feature.
		§ SCB	RC: LINE	rcc i	3306-1	 29-30	Screening Class.
1 2	EXPANSION (NCTE 5)	ESC EL IGS1	FC: HL HG FC: HTL FC: HTL FC: HL HG FC: HL HG FC: HL HG	EI GST	3105-1 3100-1 3105-1 3100-1 3105-1 3100-1	 37 49 31 36 30 35 48-49	three Way calling feature. Easemitial line (class i mervice). Ground Start line. Walti-line bust Group tarainal feature number.
i		1	RC: BTI	HEL	3105-1	 20-21	to the telaphone (directory) number).
1 1	INE DATA CRES NOTE 5)	ESH INDEX			3100-1	 39	Call forwarding Index.
1			RC:LINE RC:BIL RC:THCPTY		3107	 72-75	Software aassage Register Index.
-		DPS	RC:LIBE SC:HTI SC:TWOPTY	DPH	3107	 48-53	Peripheral Lecoder Triplet for hardware register.

FIG. 2C (continued) SCAN PCINT NUMBER TRANSLATION - LINE SUFTRANSLATOR NOTE (continued):

4. KIYWORI CAOSS-REPEBBNCE & DESCRIPTION POE LINE SUBTRANSLATOR EXPANSIONS [continued]

PYDINCTOR	ICATA BABE	INPUT 8			S FOF		DESCRIPTION
	1		SEYNCRD	I BO.	ITTEN	ICOLUMN.	
			1		i		
INE DATA	ICHT	BC:HLRG	ICSL1	3105-1	1 -		Multi-line hunt group and lines are allowed to change
ORDS	1		ı	1		1	speed oall 8 list (CHL=1). See Note 8.
(continued)		RC:LINE			1 -		
				i -			
	ESL INDEX		IESL	13100-1	1 -		Speed Calling - 1 digit service (8 mbr. list).
	1	IRC: HTL	1	1		1	(Spaod Call lader - SC8 Head Table (Program assigned).
	ICHE	RC: MLHG	ICSL2	3105-1	1 -		Bulti-line hunt group and lines are allowed to change
	1	1	1	1	1		(speed call 30 list (CHF=1). See Note 9.
		RC:LINE				1 -	
						1 -	
		RC:LINE		3100-1	1 -	41	(Spend Calling - 2 digit service (30 list)
			1	1	1	1	(Speed Call Index - SC30 Hand Table (Program assigned).
	IESF INDEX		LISE	i	i	i	1
	1		INCEL	i	ì	i	
		RC:LINE		3107-1	1 -	142-47	[Peripheral decoder triplet to provide a sleeve lead.
		SC:MPTY	1	8	i	i	
		RC: HTL	1	1	1	i	
		RC: TWCFTY		i	i	1	
		RC: LINE		3107-1	- 1	142-47	Periph Escoder triplet for Noise Issunity line Circuit
	ICCIM		CCIE	1	1	1	[Coin triplet index - Coin Triplet Address Table & Coin
	TRIPLET		TELELET		i	i	ITriplet Status Table.
	INDEX		INDEX		i	i	i i
		RC:LINE		3107-1	i -	153	[Peripheral decoder point assigned to coin line.
		RC: LIME		13306-1	1 -	125-26	Originating as for Class Code. Sae Note 13.
		RC:MLRG	TIC	3105-1	1 -	132	Touch Tons Calling fasturs (TTC=1).
		BC: LINE	LCC	13306-1	1 -	129-30	Screening Class.
	18/D	IRC: HTL	181N	13107-1	1 -	135-41	Billing/Directory - Por multi-line:
	1	1	1 .	1	i	1	= 0 if BIN not typed. Use BIRG group ETM.
	i	1	i	i	i	i	= 1 if BTs of member typed and same as TR of member.
	1	1	1	1	1		Por ncn-multi-line:
		RC: LINE		i -			= 0 invalid state
		RC:TWOPTY	1 -	i -	i -	1 -	= 1 the directory number is used as the BTN.
		RC:LINE	FCH	3107-2	- 1	154	Inhibit ach Tone on the line
	1	IRC: INCPIN	4	1	i .	i	= 0 if act inhibited.
	i	RC: MPTY	i	i	i	i	i = 1 if inhibited.
			i	i	i	í	i
		RC:LINE		3107-2	i -	155	Prohibit Automatic Line Insulation Test
		RC: TWOPTY	1	i	i	1	= 0 if act prohibited.
		IRC: METY		i	i		= 1 if prchibited.
		RCIETL	i	i	i		

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FIG. 2C (continued) SCAN PCINT BURGES IDANSIATION - LIMI SUPERABSLATOR

FIG. 2C (continued) SCAN PCINT BURGES IDANSIATION - LIMI SUPERABSLATOR

NOTES (continued)

5. Expansion entries contain 1, 2, 0 or 8 line data words as indicated, via EIPTSI, Figure 11h. If several expansion wided, which is the last word of the 2, 0 of 8 word expansion.

4. This word can only be part of a PBYLTHG expansion.

7. Telephone masher is stored in DCD for hot line mervice, 1-8 digits require a 2-word expansion; 9-11 digits require a 3 a word expansion.

6. If the FSL keyword is specified on a EC and the CSL1 keyword is not, CHI is determined by the ICS lit in CFF_EATA (Fig. 21h).

7. If the FSL keyword is specified on a EC and the CSL2 keyword is not, CHI is determined by the ICS lit in CFF_EATA (Fig. 21h).

10. Expansion entries contain 1, 2 or 0 words as indicated, via FIFFSL, Figure 11h.

11. FF 6 EPU are subually exclusive on a lite.

12. If any trigger masher entry does not contain a trigger number, then the entry follows the "DHASSIGNED FORDAT" (FORDAT) and trigger number, page 11) for directory positer expansions.

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PIG. 2C (continued) SCAN POINT NUMBER TRANSLATION - LINE SUPTRANSLATOF

(NOTES (continued):

13. ORIGIDATING AND TERMINATING MAJOR CIASSES

HAJOR			
CLASS	ASSIGNMENT	CRIGINATING	TERBINATING
0	UNASSIGNED	T .	¥
2			
2			
3			
4	TWO-FASTY RING	¥	1
5	TWO-PARTY TIP	Ä	A
6	INDIVIDUAL - TRAFFIC	¥	1
7	INDIVICUAL - FREE	•	¥
8	INDIVICUAL	¥	ž.
9	HOTEL-HOTEL	x	
10	TSPS SELECTIVE CALL SCREENING	x	
- 11	Tapa appreciate Cutt achtening	X	
12			
13			
14			
15			
16	MULTIPARTY PARTY 1	y	1
17	MULTIFABTY PARTY 2		¥
18	MULTIPARTY PARTY 3		4
20	MULTIPARTY PARTY 5		Y Y
20	MODIFICANT CARTE 2		
21	MULTIPARTY PARTY 6		x
22	MULTIFASTY FARTY 7		1
23	MULTIPARTY PARTY 8		x
24	COLM FIRST - CCIM	1	x
25	DIAL 1CHE FIRST - CCIN	ŷ	î
26			-
27	THEREOFER		
28	INTERCEFT AUTOCCREECT	y	1
29	WOLOCCURECT		1
30	DENIED SERVICE	x	¥
31	SPECIAL BOUTING		x

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PA-38303 PIGURE 2D SPECIAL BILLING TABLE FOR BATS SBILIBL (STI ENTET) 1010101XE10101///10 0 1 10 0 0 C 0 1 1 151 141 131 121 111 101///18 615 NUMBER OF SPECIAL ESILLING ENTRIES - 1 CB ZEBC ------SPECIAL BILLING TAFLE ADDRESS 2 SBINCE (NOTE 2) 1 1 A B C i D 1 2047 HAX NOTESI 1. SBINDX = Special Billing Index obtained from the packed directory number for WATS lines. 2. TIPE: 0 = Full business day WAIS. 1 = Measured time WATS. I - Reserved for assignment by individual companies (excidentify states). Y = Service area or band subscribed to-A,B,C,D = 4 digit customer I.D.

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SECTION 200

FIGURE 2E OFFICE INDEX EXPANSION

	CIERE	(NT) ENTRE)	
OFFICE INDEX		Villiani	77.
4 (9 (4	-
	115	USAND NCC THOUSAND NOC 12 11 8 7 4 3	-
		B	>i
	İ		-
			-
	1////	//////////////////////////////////////	1

MCTES:

- OFFICE INDEX = 0 is not used. Valid cffice indices range from 1 to 30. Office index is a combination
 of NOC and thousands digit.
- 2. CROSS REPERENCE 6 DESCRIPTION FOR CFFICE INDEX EXPANSION

EXPANSION	I INPUT	KETHERD	i	III	 CCLUMN	DESCRIPTION
OFFICE I ADEA	RC: ETN	CODE	3501-	1		ffice Code ousands digit

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P.		

SECTION 200

PIG. 4 SCAN PCINT NUMBER TRANSLATION - SERVICE CIRCUIT TABLE

WOTES:

- The Service Circuit Table is a Universal Subtranslator which contains the data for the 256 scan points in the first 16 rows (0-3) of MSOO.
- The Service Circuit Table address is the address for the SPN 0 entry.
 Service Circuit Table Address Address of word 0 in the SPN HEAD Table + store Increment.

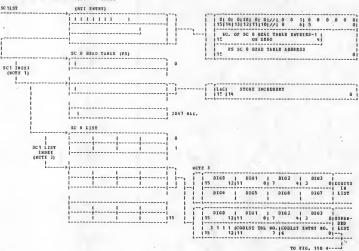
PA-38303 SECTION 300 ORIGINATING LINE TRANSLATIONS INDEX_CF_FIGURES Figure 5 - Speed Calling List (1-Digit) Figure 6 - Speed Calling List (2-Digit) Figure 7 - Nessage Begister List Figure 8 - Call Forwarding Table Figure 9 - Coin Iriplat Index Information

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PIGURE 5 SPEED CALLING LIST - 1 DIGIT
```



PA-38303 SECTION 300 FIGURE 5 (continued) SPEED CALLING LIST - 1 DIGIT NOTES:) 1. INE SC1 INDEX is stored in bits 0-10 of the LINE DATA WORD, Figure 2C, or the PRE/MING group table, Fig. 128. 2. The index for the SC 6 List is a function of the dialed code; SC1 LIS1 INDEL = 2 • CODE - 4. 3. The number of digits in the two word entry is eight. If more digits are meeded, the second word of the entry constant as table and entry number needed to obtain an entry in the CODIST translator for the rest of the digits. The digits are stored in Sch. 4. List Availability Code (LAC): LAC = 0 Vacant * 1 Assigned

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FIGURE 6 SPEED CALLING LIST - 2 DIGIT
                                               |------
                                                 PS SC 30 HEAD TABLE ADDRESS
SC2 INDEX
 (NOTE 1
      SC2 LIST
       INDEX
      (NOTE 2
                                         |----- II
                                         | DIGO | DIG1 | DIG2 | DIG3 |
| 15 | 12|11 | 8| 7 | 4| 3 | 0|EXPAN-
                                         | 1 1 1 1 (CODLST TBL MO.) CODLST ENTRY NO. | LIST | 115 | 12|11 | 7 | 6 | 01-3
```

TO FIG. 118 4----

PA-JB303 SICTION 300 SICTION 3

) 1. The SC2 INDEX is stored in bits 0-10 of the LIME DATA WCRD, Figure 2C, cr the PSK/MLSG group table, Fig. 12B.

2. The index for the SC 30 LIST is a function of the dialed code; SC2 LIST INDEX = 2 * CODE - 40.

3. The number of digits in the two word entry is eight. If more digits are needed, the second word of the entry contains a table and entry number needed to obtain an entry in the CODIST translator for the rest of the digits. The digits are stored is BCD.

%. List Availability Code (LAC): LAC = 0 Vacant = 1 Assigned

65 43 210

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PIGURE	7	MESSAGE	RECTSTER	ITCT

0 0
0
0
ì
-
0
!

MOTES:

1. MSG INDEX is stored in bits 0-11 in a LINE DATA HORD. See Figure 2C.

PA-38303 FIGURE 8A CALL ECREARDING TABLE CPIBL (BIL ENIBA) NO. OF CALL PERSARDING ENTRIES -1 CE ZESC |-----CALL ECRWARDING TABLE ADDRESS CP INCEX (BOTE 1) | BOTES:) 1. CF INDEX is stored in bits 0-11 of a LINE DATA WCRD. See Figure 2C. 2. ACT = Active entry 3. TIMER = 1 = 10 sec.) 4. CP_TCR = TCR number for CF activatics. 5. IAO = 1 -IAO Activation in Progress. ISSOE 3 PRINTED IN U.S.A.

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SECTION 300

```
FIGURE 8B CALL FCBWARDING DIGIT LIST
      (HTI ENTRY)
| 0 | 0 | 0 | XE | 0 | 0 |///| 0 0 1 | 0 0 0 0 0 1 | 15 | 14 | 13 | 12 | 11 | 10 | ///| 8 6 | 5
      NO. OF CF DIGIT LIST ENTRIES - 1
      115 OB ZEBC
      ......
         CF DIGIT LIST ADDRESS
      CALL FCHWARCING DIGIT LIST (PS) (NOTE 1)
2°CF INTEX
 (11-0)
  ......
 NOTE 2
      |----- Digits
       DIG 4 | DIG 5 | DIG 6 | CIG 7 |
      DIG 0 | DIG 1 | DIG 2 | DIG 3
      |----- | 8 digits
      1 1 1 1 1 CCDLST TBL NO | CCDLST ENTRY NO 12 111 746
                           01----> To Fig. 11B )
      L------ 8191 Bax.
```

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FIGURE 88 (continued) CALL PCRWARDING DIGIT LIST

NOTES:

Diso (**0-7). BCD digits are the call ferwarding number. If digit position
 3 = 111, the entry is assigned but unused. If digit position ** = 1111, the
 ent of word is a table and entry to a digit expersion sea. (Fig. 119).

2. CF index is stored in bits 0-11 cf a lize data word. See Figure 2C.

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FIGURE 9 COIN TRIPLET INDEX INFORMATION

HOTES:

%. The coin line circuit's TRIPLET INCEN and TRIPLET POINT is stored in a line DATA WORD. See Figure 2C.

FIGURE 9A COIN TRIPLET INDEX INFORMATION - COIN TRIPLET ADDRESS TABLE

```
(STI ENTRY)
CCINTRIP
       NC. OF COIN TRIPLET ENTRIES - 1
       115 GE ZEFG
       |-----
         PS ADDRESS OF CCIM TRIPLET ADDRESS TABLE
       COIN TRIPLET ACCRESS TALLE (PS)
0 ----- NACANI ----- 0 1
  TRIFLET
  INCER
  (NOTE 1)
      ASSIGN |
                TECH INCIES 2831
         113 11110
       |-----
                          11023 BAX.
```

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REYWORD		NO.	ESS FCRN ITER(CCLURE(S)	LESCRIPTION
			48-52	Todividual assigned points. Coin Triplet address (MOTE 3).
CIN TEI	PLET ACDRE		TEIPLET PEC 7	PD 80. 0
- Peri	pheral Pu	lse Dist		

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PIGURE 98 COIN TRIPLET INDEX INFORMATICS - COIN TRIPLET STATUS TABLE

COIDSTAT	(BII ENINI)	
	[0] 1] 0[XZ] 1] 0[//] 0 0 1] 0 0 0 0 1 0 [15]14[13]12[11]10[//] 8 6] 5	0
	NO. OF CH TRIPLET STATES ENTRIES-1 15 OB 225C 4	į
[TS ACCRESS OF TRIPLET STATUS TABLE	0
1		
	COIN IBIPLET STATUS TABLE (TS)	
	COIN INIPLE! STATUS TABLE (TS)	01
SEE FIG. 9	-> _f	01

1	14	-18114	B	>1	
i	i	1	SEE FIG. 9	i	
ł				- 1	
ł					
				1	
1//1	1//1	1//1	1//1	1255	8
1//1	1//1	1//1	1//1	1	
				mme i	

BOTES:

1. \$2\$150 - Status bits for the 3 peripheral decoder points in the triplet.

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PA-38303 SECTION 400 TERMINATING TRANSLATIONS INDEX_CF_FIGURES Figure 10 - 4-Digit Translation Figure 11 - General Purpose and Code List Expansion Tables

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FIGURE 10 FOUR DIGIT TRANSLATION PECH TRANSIENT CALL RECORD [TCB] THOUSANDS GROUP TABLE NOC | THOUSANDS | HUNCEELS | TEES | UNITS HUNDRECS DIGIT SEE FIG. 10C 3 * NOC STORE INCREMENT I I I I I I I I I SUNDREDS GROUP TABLE (FIG. 100) 13(10 .TEBS.UNITS) NUMBER GROUP TABLE THOUSANES DIGIT ļ -----1 1 1 1 1 1 1 STORE INCREMENT 1 1 1 1

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PA-3H303 SECTION 400 PIGURE 10A FOUR DIGIT TRANSLATION - HTT PHYSY NOCD (STI ENTSY) 3 * NOC 1 0 1 0 1 0 (XE 1 0 1 0 1//) 0 0 1 1 0 0 0 0 0 0 1 15 114 113 112 111 110 1//(6 6 1 5 0 1 _____ NUMBER OF NUMBER GROOF TABLE ENTRIES - 1 C# ZEBO -----FROGRAM STORE ADDRESS OF NUMBER GROUP TABLE +----- POINTS TO NUMBER GROUP 115 0 6 TABLE (FIG. 108) (SEE HOTE 1) NOTES: To satisfy "Reallocation" requireasests the following table arrangement is necessary. Fach Number Group Table (NGT) is followed by the first assigned Thousands Group Table (TGT). Each TGT is followed by the Hundreds Group Tables (HGT), anxiaua of 10 tables, associated with that TGT. After the HGT, the next assigned TGT follows sith its associated (HGT). After the TG tables for the MGI, the next MGI follows with its IG and BG table.

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SECTION 400

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THOUSANDS

DIGIT

PIGURE 10E FOUR DIGIT TRANSLATION - NUMBER GROUP TABLE OPTIONS

PRCH PIG. 10A MUSSER GROUP TABLE (NOTE 1)

111

NOTES:

1. There are 3 possible one-word entries in the Number Group Table.

2. DATA NAME CROSS-REFERENCE AND DESCRIPTION

......

DATA	INPUT	MESSAGE		ESS	FORM	DESCRIPTION
B 641 E		REYWORD	HC.	111H	(COLUMNS (S)	
CODE INVEI	RC:NG	CDI	3501-1	-	28-30	Code index used to route call to another office on a per thousands group tasis.
	1	1	!	ļ	1	
	!				į	
				į	i	

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PA-38303 SECTION 400 PIGURE 10¢ FOUR DIGIT TRANSLATION - THOUSANDS GROUP TABLE PIG. 108 THOUSANDS GROUP TABLE (NOTE 1) ---------101010 VACART HUNDREOS GROUP HUNDREDS 15 | 14 | 13 DIGIT SCUTE ISCEY 1 1 1 10011 STORE INCREMENT 1-1 1 1 1.1.1 STORE INCFEMENT L .----> POINTS TO HUNDREDS GROUP TABLE (FIG. 10D)) 1. There are 3 possible one-word entries in the Thousands Group Table. 2. DATA BABL CROSS-REFERENCE AND DESCRIPTION DATA | INPUT MESSAGE | ESS FORK MASE DESCRIPTION INTENDED | NO. | ITEM| COLUMNS (S) 4 CUT |CUT |3501-1| - |27 | If CUT = 1, the hundreds group is in the pre-cut state. IRC: HG ROUTE I BC : BG BTI 13501-11 - 131-33 | Route Index used to route calls on per hundreds group. INDEX THOUSAND ISSUE 3 PRISTED IN U.S. A. PAGE S PIGDRE 101 POUR EIGIT TRANSLATION - HUNDERDS GROUP TABLE

(POINTED TO BY THOUSANDS GROUP TABLE (FIG. 10C)

HOMOREOS GROUP TAELE (NOTE 1)

i	UNASSIGNED	15 14 13 12	0 1
(10*TENS+UNITS			!!!!!!
			//////
	UNASSIGNED		REK TE 41 D
	WITH NEMARKS		//////
į	>		//////
	INTERCEPT OR SPECIAL	1 1 0 TR_IDX_BHK HONTH_HEK /// IDX 15 14 13 12 9 8 5 /// 3 (NOT	18K
	REMARKS	THCC = 28 OF 31 TRC ///// ROUTE INDEX	0
		TBCALE ////////////////////////////////////	0
	NCRMAL LIME	1 1 1 0 1 TERHINAL ECDIPHENT NUMBER	.0
		TERM NJ CL CD TRC EST OT BODTE INDET	0
		TBCALE /////////////// LCC INDEX 15 141///////////////// 7	0
	LINE	1 1 1 /// TABLE NO. ENTRY NC.	0
	REQUIRING ZIPANSICH DATA	2ND WORD OF NOBEAL LINE	0
		TECALE ///////////////////////////////////	0
		(continued)	

|See Fig. 10D expansion entries)

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FIGURE 101 FOUR DIGIT TRANSLATION - HUNCFEDS GROUP TABLE (CONTINUED)

	(continued)	
	1 1 0 TERMINAL EQUIPMENT NUMBER	0
AUTOCONBECT	TIRM HJ CL CD = 29 THC 0 OT RETURB TRIGGER INCIT 15	0
	TBCALE ///////////////////////////////////	0
	0 1 C /// PEX/NING NUMBER 1ST BUNT MER NC	0
FBX/PLHG	TERM HJ CL CC TEC 0 OX ////// LAST HUNT BBN N 15 11 10 9 8 ////// 5	0
	TRCALE	0
FBI/ELHG EEMEER LEWIEC TERMINATION	0 1 0 /// FBI/HLHG WUNDER 1ST BUNT BBW NC	0
	TEPS HJ CL CD = 30 /// 0 /// ROUTE INDEX 15 11 /// 9 /// 7	0
	0 0 /////////////////// LCC INCEX	0

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PIGURE 10C (CONTINUED) FOUR DIGIT TRANSLATION - HUNDREDS GROUP TABLE

PERSON PREDICT COPP PTC 144

	EXPANSION ENTRIES (SEE FIG. 11)
LINE BAS A SESIES COMPLETION	0 1 1 1 TERMINAL EQUIPMENT NUMBER 15 14 13 12 0
DIBECTORY NO.	SESIES CCHPLETION DIRECTORY RUNDER (NOTE 2)
LIBE HAS A KEY SCAN POINT NO.	1 0 0 TEBHINAL EQUIPMENT NUMBER
	TH ///// RET SCAN PGINT MURRER
LINE HAS BOTH A	1 1 0 1 1 TERMINAL EQUIPMENT NUMBER
KET SCAN EGINT NUMEER AND A SEBJES CCMPLETION DIFECTORY NUMEER	TH ///// RET SCAN POINT NUMBER
	SERIES CCMPLETION DIRECTORY NUMBER (NOTE 2)
	Villiani in i

MOTES:

- 1. There are 8 possible 3-word entries in the Hundreds Group Table.
- Series cospletion number entry contains the 7 digit telephone number in packed format. The Office Code is any NOC in the
 office. See Note 3 of Fig. 2C for icreat.
- 3. Word points to a 2 or 4 word expansion wia EXPIRL, Fig. 11A.
- 4. IDI_BMK (Expanded)

 - = 5 Do not assign = 13 Semi-public coin = 6 - Flant assignment = 14 - Beserve = 7 - Beserv on tage = 15 - (Spare)

SECTION 400

FIGURE 10c (CONTIBUED) FOUR CIGIT TRANSLATION - HUNDREDS GROUP TABLE HOSES (CONTINUED) :

TABLE	DATA NAME		SET THORT	j		COLUNN (S)	DESCRIPTION
UNASSIGNED WITH REBARKS	IIDX_BHK	FC:LINE	FNR	13100-1	-	63-75	See Bote 4
	HONTH_BMK	-	! -	! - !	-		1-12 = Nonth of year
	YE_IDX_RMK	-	-	-	-	-	0-9 = Last digit of year 10-14 = Not used 15 = Entry older than 3 years
INTERCEPT OR SPECIAL	IDT_BBK	RC:LINE	BEK	3100-1	-	63-75	See Note 4 .
NOUTING	HONTH_BER						1-12 = Nonth of year
REHAEKS ITE	TR_ICY_RHK						0-9 = Last digit of year 10-14 = Not used 15 = Entry older then 3 years
	POUTE INCEL	BC: LINE	114	3 100-1	-	53-55	Special routing Noute Index
TH	THEC	RC:LCC	THAJ	3306 -1	-	27-28	Terminating Rajor Class Code. See Fig 2C, Note 26 * Intercept 31 * Special routing
	LCC INDEX	RC: LCC	-	-	-	-	Line Class Code Index (Program assiqued)
	TRCALN	BC:NIT	TRC	3107-2	-	56-58	Trace 6 Alars 8 = Ro trace 1 = Rajor slarm on trace 2 = Simor slarm on trace 3 = Ro slarm on trace
	TERMINAL EQUIPMENT NUMBER	RC: LINE	CE	3 100 - 1	-	24-29	Cffice equipment number.
	TER BJ CL CD	BC:LCC	THAJ	3306-1	-	27~28	Terminating major class code. See Fig 2C, mote
	TRC	RC:LINE	180		-		Call trace feature.

SECTION 400

FIGURE 101 (CONTINUED) FOUR DIGIT TRANSLATION ~ NUMBERS GROUP TABLE (NOTES (CONTINUED):

5. DATA CROSS-REFERENCE AND DESCRIPTION

TABLE	DATA NAME	I INPUT E			155		
	DATA NAME	i	I KETHORD			(COLDMN(S)	
Continued)	iox						If OX = 1, the Line Subtranslator has terminating translation data.
		BC:LINE	GS1	3100-1	-	35	1. Ground start.
		RC: LINE	ESH	3100-1	-	39	2. Call forwarding index.
		BC:LIKE	DF	3107-1	-	42-47	3. Sleeve lead distributor triplet address.
		RC: LINE	DPC	3 107 - 1	-	42-47	 Noisy line circuit distributor triplet address.
	ROUTE INDEX	BC:LINE	R11	3100-1	-	53-55	Boute Index.
	EST	RC:LINE	ESX	3100-1	-	38	Call waiting feature.
	LCC INDEX	RC: LCC	- 1	-	-	-	Line Class Code Index (Program assigned).
		RC:LINE BC:MTL	TFC	3107-2	-	56-58	Trace 6 Alara. 0 = No trace 1 = mojor lara on trace 2 = Minor alara on trace 3 = Mo alara on trace 3 = So alara on trace
LINE	TER BJ CL CD	RC:ICC	LANE	3306-1		27-28	Terainating major class code. See Fig.2C, Note
	TRC	AC:LINE	1150		-		Call trace feature.
	ESX	BC:LIME	ESI	3 100-1	-	 38	Call waiting feature.
	LCC INDEX	BC: LCC	-	-	-	-	Line Class Code Index (program assigned).
		BC:Line BC:MIL	TRC	3107-2	-	56-58	Trace & Alara. 0 = No trace 1 = Najor alara on trace 2 = Ninor alara on trace 3 = No alara on trace 3 = No alara on trace

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SECTION 400

FIGURE 101 (CONTINUED) FOUR DIGIT INANSTATION - NOMBRES GROUP TARLE
) NOTES (CONTINUED):

5. DATA CROSS-PEFERENCE AND DESCRIPTION

TABLE EKTRY	DATA NAME	INPUT				FORS	DESCRIPTION
		l	KETWORD	1 80.	ITEN	COLUMN S	DESCRIPTION
RECOIRING	BOUTE INCET	RC: LIBE					Foute Index.
EXPASSION DATA	iox						If OX = 1, the Line Suttranslator has terminating translation data.
(continued)		FC:LINE	G 5 2	3 100 - 1	-	35	1. Ground start
	i	RC:LINE	ESP	3100-1	-	39	2. Call forwarding index
	1	RC:LINE	DP	3 107 - 1	-	142-47	3. Sleeve lead distributor triplet address
		RC:LINE	1	3107-1	-	42-47	 Noisy line circuit distributor triplet address
NORN PL LINE TERMINA AUTOCONNECT TEQUIPME NUMBER TER MJ	TERMINAL	RC:LINE		3100-1	-	24-29	Cffice equipment puater.
	TER MJ CL CD	FC:LCC	CANT	3306-1	٠	27-28	Terminating Major Class Code. See Piq.2C, Note (
	RETURN IBIG-	-	-	-	-	-	Peturn Trigger Index into the Caliback Bueber Iranalator,
	LCC INDEE	BC: LCC	- 1	-	-	-	Line Class Code Index (Program assigned).
		RC:LINI RC:STI	THC	3107-2		56-58	Izace 6 Alara. 1 = 80 trace 1 = 80 for alara on trace 2 = Blace alara on trace 3 = 80 alara on trace
	PDX/BLHG BUMBEB	RC:HIL	INE	3 100-1	-	46-47	Switi-line group number.
	1ST HUNT NEB		TEG	3 100 - 1	-		Pirst bunt aulti-live bunt group terminal (seaber) number. First bunt mumber is the member swaber for this TS.

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SECTION 400

PIGURE 10 E (CONTINUED) FOUR DIGIT TRANSLATION - HUNDREDS GROUP TABLE WOTES (CONTINUES):

DIMA CANCA-CREEDINGS AND DESCRIPTION

TABLE	1	I LOSMI	ESSAGE			FCBE	
ENTRY	DATA NAME					COLUMN (St	
PBI/HLHG (continued)	TER HJ CL CO	BC: LCC	TEAJ	3306-1	-	27-28	Terminating major class code. See Fig. 2C, Note 8
	(TBC	RCIHIL	TRC		-		Call trace feature.
	101						If OX = 1, the Line Subtranslator has terminating translation data.
		RC: BTI RC: MLHG		3100-1 3105-1			1. Ground start
		RC: BTL	ESE	3 100 - 1	-	39	2. Call forwarding index
		RC: MTL	DP	3107	-	42-47	3. Sleeve lead distributor triplet address
		RC: HTL	340	3 107	-	42-47	4. Noisy line circuit distributor triplet address
	LAST HUNT	RC: NTL	LBS	3 100- 1	-	50-51	last hunt aulti-line hunt group terainal [scaber] number.
	TCC INDEX	RC:LCC	- 1	-	-	-	Line Class Code Index (Program assigned).
		BC:LIME BC:HTL	TEC	3107-2	-	56-5B	Jaco & Alera. 0 = No trace 1 = Major alara on trace 2 = Ninor alara on trace 3 = No alara on trace
MEBBER	PBI/HLHG (NUMEER	BC: HTL	BPI	3100-1	-	46-47	eulti-line hnnt group number.
TERMINATION	1ST HUNT MBR	BC: MTL	TEF	3 100-1	-	48-49	 First hunt multi-line hunt group terminal meaber number.
	TER MJ CL CD	FC:LCC	ITHAJ	3 306 - 1	-	27-28	1 ferminating aajor class code. See Fig.2C,Note 8 30 = Denied

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SECTION 400

PIGURE 101 (COMTINUED) FOUR DIGIT TRANSLATION - HUNDREDS GECUF TABLE
1 HOTES (CONTINUED):

5. DATA CROSS-REPERENCE AND DESCRIPTION

TABLE	CATA NAME	INFU1 P	ESSAGE	!	ŧss	FCRE	
			RETHERD			COLUBII (SI	DESCRIPTION
PBK/FLHJ HEMBER DEKIED	ROUTE INCEX	RC: NTI	PII	3100-1	-	53=55 	Moste Index.
EBMINATION continued	FCC INDEX	RC: LCC	-	-	-	-	Line Class Code Index (Prograe assigned).
EXPANSION ENTRIES	TERMINAL REQUIPMENT	FC:LINE	101	3100-1	-	24-29	Cffice equipment number.
	SERIES COMPLETION NUMBER	RC:LINE	SEB	3 100 - 1	-	56-59	The series completice number entry contains the A-digit station number in BCE. The BCC ie the same as the entry BCC.
	KET SCAN POINT HUMBER	RC:LINE	SP	3107-1		56-60	Accas point entry is required for the following type of lines; the first type of lines; the first type of lines; the feature. 2. Robite radio lines; 3. 14 Concentrator lines, 4. Group alerting lines. 5. Subscriber loop entitylener lines.
	TONE (TN)	BC:LINE	BST	3 10 7- 1	-	55	lone 0 = Reorder 1 = Buey

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PA-38303 SECTION 400 PIGURE 114 (CONTINUED) GENEFAL PURPOSE EXFANSION TABLES 1. The following tables require General Persone Expansion lables: a) Line Subtranslator, b) Hundreds Group Table, and c) Route Index Expansion Table. 2. Haster Table Index Entry (FIR ENTER) 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 15 14 13 12 11 10 1// 8 61 5 NUMBER OF EXPANSION HEAD ENTRIES-1 | PS ADDRESS OF EIPANSION BEAU TABLE |----- POINTS TO EXPANSION HEAD TABLE 3. EXPANSION HEAR TABLE PCINTEL TO BY BTE ENTRY 2 . TABLE |TESTPEL//INDEBER CP ENTRES-11 1151 101//112 STORE STORE INCREMENT INCREMENT 163 BAK t------ ECINTS TO 1, 2, 4 OR 8 WORD EXPANSION TABLE ENTRY SIZE INDICATOR (ESI) - LOG (NO. OF WORDS IN EMERY). The valid values for ESI are 0, 1, 2 6 3 for 1, 2, 4 6 8 word If TE - 1, then the Table Exists. . If TFI = 1, then the Table is full (all entries are used). ISSUE 3 PRINTED IN U.S.A. PAGE 15

STCRE · INCREMENT 2 HCEC 4 WCHD EIPANSION TABLE EXPANSION TARLE 4 . ENTRY 2 . ENTRY 1 E4 | D5 | E6 | D7 | -----|------D4 | D5 | D6 | 17 | | C8 | D9 | D10| D11| |-----1111 1013 | 63 | 83 | | 612| 013| 614| D15| | £16| D17| £16| D19| |-----1511 1 A B &---- BA I

STORE INCREMENT

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2 . TABLE

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PA-38303 SECTION 400 PIGURE 118 (CONTINUED) COLE LIST EXPANSION TABLES NOTES: 1. The following tables require Code List Expansion Tables for additional digit storage: a) Sreed Call 8 List, b) Speed Call 30 List, and c) Call Forwarding Variable. 2. Master Table Index Entry CODIST (SELNE ILE) | 0| 0| 0|xE| 0| 0|//| 0 0 1| 0 0 0 0 1| |15|14|13|12|11|10|//| 8 6|'5 0 NUMBER OF COLE LIST HEAD ENTRIES-1 1 15 OF ZERC 4 PS ADDRESS OF CODE LIST HEAD TABLE ------ POINTS TO CODE LIST 0 i BEAD TABLE 1 3. CODE 11ST HEAR TABLE U34440 POINTED TO BY STI ESTRE 2 * TABLE |TE(TEL)/|HUNBER CF ENTRIES-1| 1153 141//112 615 STCRE STORE INCHEMENT INCREMENT t-----> PCINTS TC 2 OF 4 NCBD EXPANSION TABLE

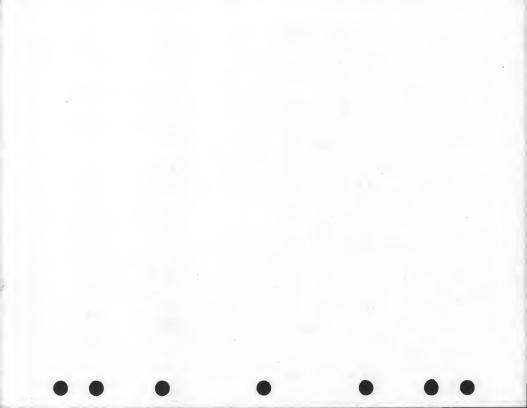
ENTRY SIZE INDICATOR (ESI) = LOG (BC. OF MORDS IN ENTRY). The valid entries for ESI are 1 5 2 for 2 5 4 word entries.

If TE . 1, then the Table Exists.

If TFI = 1, then the Table is full (all entries are used).

) 4. Dn - B = 4 to 19 BCD digits. ISSUE 3

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PA-38303 SECTION 500 GROUP TRANSLATIONS INDEL OF FIGURES Figure 12 - Group Translation - PBK/HLHG, Service Circuits, Trunks Figure 13 - Selection Status Blocks Figure 14 - 3-Fort Status Bits Figure 15 - Hester Lists ISSUE 3 PRINTED IN D.S. A. PAGE 1 PA-38303

SECTION 500

PIGURE 12 GROUP TRANSLATION 42 14/10

(HOTE 1) GROUP NUMBER (7|6|5 [A] B (

> GBPTBL (BII ENTRY) (FIG. 12A) NOTES: 3 · A GECUP TABLE (NOTE 2) (PS) (NOTE 3) |

- 1. The GROUP BURBER is from the Universal Subtranslator (SPN Translation Fig. 28) or from the Soute Index Translator (Fig. 18) .
- There are 3 types of group tables:
 a) PBE/MLHG Group Table (Fig. 128). b) Service Circuit Group Table (Fig.
 - c) Trunk Group Table (Fig. 12D).
- 3. I = 8 for PBI/MLHG and Trunk Group
 - Tables. I = 4 for Service Circuit Group Table.

| 1511 MAI (PRI/MLHG or Trunk Groups)

PTBL		(PII ENIFY)
1		0 0 0 128 0 0 // 0 0 1 0 0 0 0 1 1 0 15 14 13 12 11 10 1/ 18 6 5 0
	FUNEERS	NUMBER OF PRINTERS - 1
, ,		PS PBI/ALBG GROUP TABLE ADDRESS 2> PCINTS TO PBI/ALBG GROUP TABLE OF GROUP TABLE
1	FIXED	0 0 0 1 0 0 // 0 1 0 0 0 0 0 1 0 3 (RIG. 128)
		SC. OF SVC CIRCUIT GBOUP ENTRIES-11
	NUDERS	P3 SERVICE CIRCUIT GROUP TABLE ADDRESS 5> PCINTS TC SERVICE CIRCUIT GROUP TABLE
•	ASSIGNABLE CIRCUIT GROUP NUMBERS	C 0 0 1 0 0 // 0 1 1 0 0 0 0 1 1 6 (Fig. 12C)
		FUNDER CF TRUNK GROUP ENTRIES - 1
		PS TRUNK GROUP TABLE ACCERSS B> POINTS TO TRUNK GROUP TABLE
		0 0 0 xxx 0 0 // 0 1 0 0 0 1 9 (Fig. 120) 15 10 13 12 11 10 // 0 6 5 0
	CIRCUIT GROUP	SUMBER OF TRUNK GROUP ENTRIES - 1
	HUMBIES	PS TRUNK GROUP TABLE ACCESS 111> POINTS TO TRUNK GROUP TABLE

FIGURE 128 GROUP TRANSLATION - PREVILEG GROUP TABLE

		PRI/NLHG GROUP TABLE (PS)	
POINTED TO BY HTI ENTRY	8 + 2		0
	i	ESCIEL GST /// CRIG BAJOS CLASS TTC SCREENING CLASS 15 14 13 /// 11 7 6 5 0	1
		GPS-00 SELECTICE STATUS BLOCK INDEX (TS) 15 1413 See Fig. 1a, para. 2B) 0	>GRPSTAT
		GPH=00 ; PENDER LIST INDEX 	>BEBLST
		O (EILLING NUBBER (SEE FIG. 2 NOTE 3) 0	
			>SC 1LST (FIG. 5
		I CC INDEX CHF SPEED CALL 30 INDEX	FIG. 6
		IEE ITRAF SCHEE HUNT SIZE HIGHEST BEBBEB MUBBER	
		SEE NOTE 2	
			1511 BAI

(continued)

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PA-3H303 SECTION 500 PIGURE 12P (CONTINUED) GROUP TRANSLATION - FRANKER GROUP TABLE EXPANSION ENTRIES (NOTE 3) 2, 4 or 8 WORD EXPANSIONS 462 1////////// NIGHT STOF HEMBER NC. 1 STOP HOWT MEMBER NO. 1 0 KEY SPH 1///////////12 1////////// KET SPN 1////////// ______ KET SPN 1/////////// 1/////////// KEY SPH 1/////////// 1////////// KFY SPH 1////////// SEE BOTE 4 1, 3 or 7 2, 4 or 8 WORD EXPANSIONS 1////////// KET SPR 1///////////12 MIMILIA RET SPR 1////////// 1////////// REY SPH MIMINI KEY SPE 1. 3 OF 7

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PIGURE 128 (CONTINUED) GROUP TRANSLATION - PRI/MING GROUF TABLE

1 DAMA CROSS-DELEGRACE AND DESCRIPTION

DATA	IMPOT		ISS FOR		
	BC: HLBG	ESC	3105-1137		Threeway calling feature
L.	RC:MLBG	EL	3105-1131		Essential line (Class & line)
52	BC: MLHG	GST	3105-1 30		Ground start.
RIG MAJOR	RC: ML HG	rcc	310 5-1 27-2	9	Criginating major class code. See Fig. 2C, Note 8.
TC :	RC:MLRG	TTC	3105-1132		Touch-Tone calling feature.
CREENING CLASS	RC: MLHG	rcc	3105-1 27-2	9	Screening class.
PS	RC: ML HG	BBL	3105-1 20-2	1	High 2 bits of group number (GPS = 00)
SPR	BC: NLHG	BaL	3105-1 20-2	1	High 2 bits of group number (GPS = 00)
BL W	RC:HLHG	BLN	3 10 5 - 1 38		[Special toll billing (Q2 billing, CNI).
OE	RC: NLHG	SOB			Service observing feature.
CRL	RC: NLHG	CHL	3105-1 35		If CHL = 1, the HIBG lines are allowed to dial in direct changes to the group's speed call 1-digit list.
CHE	RC: MLBG	CHF	3105-1133		Iff CHF = 1, the MLHG lines are allowed to dial in direct changes ito the group's speed call 2-digit list.
SPEEL CALL 8	RC: NLHG	ESL	3105-1136		Used to index the iC 8 HEAD TABLE (FIG. 5). The index is progras lassigned when speed call 1-digit service is given. The index last be 2 , if assigned.
SPEEL CALL 30	RC: BLHG	ESP	3105-1 34		lused to index the SC 30 HEAR TABLE (FIG. 6). The index is progra: lassigned when speed call 2-digit service is given. The index laust be 2 1, if assigned.

PIGURE 120 (CONTINUED) GROUP TRANSLATION - PRI/HING GROUP TABLE NOTES:

1. DATA CROSS-REPERENCE AND DESCRIPTION

DATA		ESSAGE	ESS FORF		
		KETWORD	PONEER	ICCERSE (S)	DESCRIPTION
PE					IIE PE = 1, the PBI/FING exists.
TRAP SCHEE	RC: HtHG	SCHED	3105-1	150 1	Traffic schedule: If TBAF SCHED = 000, No schedule (temetred]. = 001, No schedule temetred]. = 011, c schedule. = 100, d schedule.
HUNT SIZE	BC: HLHG	HSZ	3105-1	24-25	Last huntable terminal for the group.
HIGHEST MEMBER MUMBER	DIST: GRP	-	3105-1	22-23	Highest member number in group, including mpares.
STP	RC: MLHG	PHT	3105-1	48-49	 If STF = 1, the FEI/ALNG has a stop hant feature.
HIT	RC: NLHG	NST	3105-1		If MIT = 1, the PEE/MING has the night stop feature,
FIGHT STOP SEMBER NO.	RC: MLHG	NST	3105-1	46-47	 Last terminal to be hunted when the might stop feature exists
STOP HUNT SERBER NO.	BC: HLHG	EST	3105-1		 Last terminal to be hunted when the stop hant feature exists STP = 1 .
55	RC: MLHG	ss			Special studies feature. Becent changeable only.
EXB		-			If FIB = 1, the PEE/HING has SPHs assigned for remote make busy, stop bust and/or might stop and the SFHs are in an expansion eater, SER MCTE 2.
E		-			If HE = 1, the PHI/FLEG has another expansion entry. SEE SCTE 4.
EY SPN	NC: NLHG		257€	20-25	Ney Scan Point Number used for night stop key, stop hunt key, and the 7 remote make heay keys. SEE NOTE 3.
CC INDEX	BC: FCC	-			line Class Code Index (program assigned).

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FIGURE 12E (CONTINUED) GROUP TRANSLATION - PREVISER GROUP TABLE

 2. Word 7 of the PBI/BLHG group data can take on either of 3 formats. The second format is used when the PBI/BLHG bas night stop and/or stop hunt members, but not SIM keys. The third format is used when the PBI/BLHG bas SPH keys.

I---->TO 2, 4 OR 8 WCRE 0| EIPABSICH

SECTION 500

- The SPMs in the expansion entries are stored sequentially as they are inputted. The size of the expansion needed is dictated by the quantity of scan roint keys.
- 4. The last word of the 2, 4 or 8-word expansion entry can take on either of 2 formats. The second format is used when the key SPR data needs more than a 2-word entry [note than 1 PBI keys], or a 8-word entry [note than 3 PBI keys], or an 8-word entry [note than 7 PBI keys]. The natises manher of RET SPR is 5,

NOTES: (CCNTINUED)

PA-3H303 SECTION 500 FIGURE 12C SERVICE CIRCUIT GROUP TARLE SERVICE CIRCUIT GROUP TABLE ENTRY 4 0 2 TRAP SCHEC |//////////////RERIGE | SIGREST BESSEN NUMBER 131/////////////// 8 | 7 |6 IGPS = 01 1 SELECTICS STATUS BLOCK INDEX TTS: I-->GRPSTAT 115 14112 (See Fig. 1A, para, 284 (FIG. 13) to cold the same same and the same and 1GP8=01 1 FIRBER LIST INDEX 1-->BEBLSI (See Fig. 1A, para, 1D) (FIG. 15) 1255 HAY NOT ES : 1. DATA CROSS-REFERENCE AND DESCRIPTION INPUT MESSAGE | ESS FORP | DATA ·-----DESCRIPTION KEYWORD I SCHEER ! CCLUEN (SI

[Traffic schedule: If TRAF SCHED = 000, no schedule (reserved).

If SBR = 1, the group has at least one member.

Highest member number in group, including spares.

001, no schedule (reaerved). 010, H schedule 011, C schedule 100, D schedule

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ITRAF SCHEE

MBB

PC: GRP | SCHED | 3202-1|25

13201-1440-42

13202-1122-24

13207-1126-28

BC:CKT ITER

DIST: GRP IGRP

HIGHEST MEMBER |DIST: GRP |

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|Group exists flag.

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2.

MCTES (continued):

FIGURE 12C (continued) SERVICE CIRCUIT GROUP TABLE

1 DATA CROSS-EFFERRACY AND DESCRIPTION (Continued)

DATA CHOSS-BEFE	ENCE AND	DESCRIPTION			
DATA	IMPUT	MESSAGE		COLUNN(S)	DESCRIPTION
IGPS	RC:GRP	IGRE	13202-1	22-24	Eigh 2 Lits of group number (GPS = 01).
 GP#	RC:GRP	GRP	3202-1	22-24	Bigh 2 bits of group number (GPH = 01)-
CIRCUIT COLE	RC:GRP	CKT	3202-1	43-44	Circuit code (MCTE 2).

......

IRCLIT	GROUP	DESCRIPTION	i SE IC	PS-PB
CDE	NO.	DESCRIPTION		
0	78 79 80 81 82 83 84 85 91 92 93	Local Overtime Coin and/cc Stell Coin Announcement Partners Signal Announcement Partners Signal Announcement Bortial Dist Announcement Bortial Dist Announcement Bortial Dist Announcement Fartner 1-9 disling error announcement Fartner 1-9 disling error announcement Fartner 1-9 disling error announcement Fartner 1-9 disting error announcement Fartner 1-9 d	38411	383
	96	Call waiting tone Loop Check Generator tone ROTH Control Circuit	99392	
8	1	Costoner Dial Pulse Seceiver	38410	
9		Touch-Tone Receiver - includes: Customer Dial Pulse Receiver and Touch-Tone Calling Detector	38410 38401	367
10	66	 multifrequency Receiver	38402	
**	1 (2	Inuleifrequency Transmitter	1384041	

[continued]

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PIGURE 12C (continued) SERVICE CIRCUIT GROUP TABLE

WCTES (continued):

2. CIRCUIT CODE DESCRIPTION AND SERVICE CIRCUIT GROUP CHOSE-REFERENCE

DE	NO.	DESCRIFTION	SD	CPS-
12	68	Dial Pulse Transeitter	38403	1 40
13	69	Regular Ringing (See Figure 34, Note 8 for Scan Bate)	1 3 H 4 1 0	1 1 35
19	70	Superimposed Ringing See Figure 34, Note 8 for Scan Fate)	3H406	1 375,
15	71	Coin Control	38411	1 42
16	104	Conference Circuit	1 3H 230	1 42
18	1 110	Station Ringer Test	1 3 H 5 2 0	1521.

3. Other test circuits are included in one service circuit group with fixed member number assignments. (See Note

CIRCUIT		PINBS)	1
CODE	100	100	s sorough updopus ton each stil	38	ICPS-P
	i	-i			1
	1	1 0	Tone Presence Detector	i	516.5
	1	1 1	Hilliwatt and Transmission Environment Test - Fort C Note 4		1505-5
	1		Continuity and Polarity Test	i	500
	1		Loop Environment Test	i	1 510
19	1 111	1.4	Millivatt and Transmission Environment Test - Port 1 (Note 4)	138520	1505-5
	1		Dial Pulse Receiver Test		1501.5
	1		Transmission Test Termination	1	504
	1		(Line Insulation Test	i	1 669
	1	8	Touch-Tone Receiver Test	i	1526-5

 This test circuit does not follow the multiport rules given in Section 200, Note 8. Each port has its own SEN, TEM and follows the universal subtranslator type 1. PA-38303

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FIGURE 12C (continued) SERVICE CIRCUIT GECOP TABLE HOTES (continued):

5. SEEVICE CIRCUIT CODE DEPINITION TABLE.

CKI	1	DESCRIPTION	I # OF	10 01	10 0	6 OF 1	4 CF
CODE			PORTS	S SPH		TP SPH	

0		& ANNOUNCEMENT CKIS	1 1	1 1	0	0 1	0
8		MER DIAI PULSE RICEIVER CKT	1 1	1 1	1 0	0 1	1
9		-TONE RECEIVER - INCIUDES:	1	1	1		
		MEN DIAL PULSE RECEIVED CKT	1 1	1 1	0	0 1	1
		-TOME CATLING DETECTOR CKT	1 0	1 0	1 8	1 1	0
10		PREQUENCY RECEIVER CK1	1 1	1 1	6	1 1	1
11		PREQUENCY INANSMITTER CAT	1 1	1 1	1 2	0 1	3
12		FULSE TRANSMITTER CKT	1 1	1 1	1 1	0	1
13		AR RINGING CKT	1 1	1 1	1 1	0 1	1
14		IMPOSED RINGING CKT	j 1	i 1	1 1	0	2
15		CONIBCL CKI	j 1	1 1	0	0	2
16		RENCE CKT	i 3	i 0	0	0	0
18	STATI	CM SINGER TEST CAT	i 2	1 1	8	1 1	1
19	CTHES	TEST CIRCUITS;	i	i i			
	CONTI	NUITY & POLABITY TEST	j 1	i 1	i 0	0 1	1
	DIAL	PULSE RECEIVER TEST	i 1	i 1	0	0 1	2
	TRANS	MISSION TEST TERRINATION	i 1	i 1	0	0 1	1
	88 8	TRANSMISSION ENVIRONMENT TEST	i 2	i 2	0	0	2
	LOCP	ENVIRONMENT TEST	i i	i i	1 1	0	2
		PRESENCE CETECTOF	i 1	i 1	1 0	0	1
		INSULATION TEST	i i	i i .	1 2	0	4
	TOUCH	-TONE RECEIVER TEST	i i	i i	0	0	- 5

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FIGURE 120 TRUNK GROUP TABLE IRUNK GROEP TABLE POINTED TO BY HTI ENTRY B + B GPS | SELECTION STATES BLOCK INDEX (TS)
15 14 | 13 (See Fig. 1A, DAKE. 2B) 11-->GBPSTAT 1 15 19 1 13 (See Fig. 1A, para. 2B) RESER LIST INCEL 12--> RESIST (See Fig. 1A, para. 1D) (FIG. 15) 5 1/////// CIRCULT CODE (BCTE 2) 13 | DISC |BYLKILID | NT | EN | 2WAY | / / / LE | OLP | START | CHE | CCEP | 4 1 15 14 | 13 | 12 | 11 | 10 | 9 |//// 7 | 6 | 5 4 | 3 | 2 | 1 0 | |CHGE|//////|PTEQ| ID_X18 |///|HP_I| ID_AUX \//////// BBS |///STP |ADDB| SIG |6 TOTABL

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FIGURE 12D (continued) INDUK GROUP TABLE MOTES:

4 0141 -----

. D	ATA CBOSS-BEFER	ENCE AND I	ESCRIFTI	CR		
i	DATA	I INPUT !			FORH COLUMN (S)	
	TRAFFIC SCHED	BC:GBP	SCHED			Treffic ochedule: If TBAPFIC SCHED = 000, so schedule (reserved) 001, so schedule (reserved) 001, so schedule (10, so schedule 011, c schedule 011, c schedule 001, c schedule 001, c schedule 001, c schedule 000, schedule
1	MB6	RC:CKT	TEF	 3201-1	40-42	IIF MBE = 1, the group has at least one member.
-	GE	DIST: GRP	IGRP	3202-31	22-24	IF GE = 1, the group exists.
	HIGHEST BEABER NUBBER	DIST: GBP	-	3202-3	26-2€	l Highest eeeber number in group, including spares.
ŀ	GPS	RC:GRP	GRE	3202-3	22-24	 High 2 hits of group number (GPS > 01 .
i	GPH	BC:GBP	GRP	3202-3	22-24	
į	CIRCUIT CODE	BC:GRP	CRT	3202-3	22-24	Circuit code NCTE 2).
	DISC	BC: GRP	DISC	3209-1	30-33	If pro of disconnect supervision required. DISC = 00, require hole - studened disconnect procedures are used. - 01, jcink hold - hoth parties sust go on-hook (trushs to recording completing operator) (trushs to recording completing operator) ques on-hook (foll Switch, 275), or no-test), - 11, customer hold - disconnect when calling farty goes on-hook. If this disconnect supervision is operator intercept trushs; 1e., annex supervision is not supercted).
į	BYLK	BC:GRP	EATK	3204-1		 Bylink trunk froe 51S office. (See Figure 34, Note 8 for Scen Rate
-	LTD	BC:GRP	CKT	3202-3		 If LTD = 1, the trunk is from or to a local test deak for circuit code = 17 (See Figure 34, Note 0 for Scan Rate)
1	WT	BC:GRP	INT	3204-1	56	(If NT = 1, the truck is a Nc Test Truck.

FIGURE 12D (continued) TRUNK GROUP TABLE
HOTES (continued):

1. DATA CROSS-PEPERENCE AND DESCRIPTION (continued)

DATA	INFUT	RETWOR		COLUBN(S)	DESCRIPTION
1		-1	-		
I SN	PC:GRP	1 EH	13204-1	29	Type of trunk supervision: If IM = 0, loop supervision is used. EM = 1, E 6 H supervision is used.
2WAY	RC:GRP	ER	13202-3	40-42 25-27	II 2WAY = 0, the traffic on the trunk is in one direction only. = 1, the traffic on the trunk is in both directions.
LP	BC: GBP	LP	3204-1	42	If IP = 1, loug loop pulsing is required.
OLP	RC:GRP	Ore	3204-1	41	If CLP = 1, overlap outpulsing is permitted.
START	RC:GRP	sı	1		 Start dial, specifies when to begin outpulsing on the outgoing trunk.
		1	3204-1		START = 00: Immediate start (by-liuk) - specifies that outpulsing is to begin after the trunk is seized or no outpulsing is required.
			3204-1	48	" 01: Delay dial - specifies that outpulsing is to be delayed until the signal which is received from the distant office at seizure time, changes to on-hook.
					= 10: Wink start - wait 350 mmec for end of wink. If two-way trunk, a wink duration of greater than 350 mmec assumes a glare situation and to let th other office wink.
		1	3204-1	51	= 11: Wink start (2-way only) - wait 1000 asec for end of wink.
ONF	RCSGRP	ONF	3204-1		If CRF = 1, MF outpulsing is required and ODF must be zero, except for trunks to SIS CABA, in which case both OMF & OFF must = 0. For this came, OTTP must = 01,
ODP	RC: GRP	ODP	3204-1		If CDP = 1, DP outpulsing is required and OHP wast be zero, except for trusts to SIS CARA, la which case both OHF & OFF must = 1. For this case, OTF must = 01.
OTTP	RC:GRP	IOTEP			Cutgoing trunk type.
1	1	1	3204-1	34	CTYP = 00: Regular trunk group.
1	1		13204-11		= 01: CAMA trunk group.
1	1	-	13204-11		= 10: TSP trunk group or DAC on TSPS trunk group. = 11: TSPS trunk group.
1	1		!!!		

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FIGURE 12D (continued) TRUNK GROUP TAELE

NOTES [continued]:

1. DATA CROSS-REFERENCE AND DESCRIPTION (continued)

AZAG	1 INDAI	MESSAGE	ESS FORP	DESCRIPTION
	1	KERMORD	SCHBER CCLUEN(S)	, , , , , , , , , , , , , , , , , , ,
CHGE				Charge specifies that calls to a free tershation line from this trush are to be given answer supervision. This allows charging on incoming calls even if it is to a free tersination, and also for proper operation of operator cord lasps. This bit should be set for all incoming operator and toll completing trushs. CHOZ * 0 if free termining line should not return answer supervision.
RTEQ	RC;GRE	RTEQ	3204-1 57	Reacts Test Equipment Facilities If 8TEQ * 0, dedicated facilities are provided for local test dosk. If 8TEQ * 1, resote test equipment facilities (SD-99311-01) are provided for local test dosk. Autoconnect procedures are used.
ID_XIN	RC:GRP	ICR INDE ICODE INDE ICODE ITBL ISCR INDE ICODE ITBL	12/01-1 40 12/04-1 125 12/04-1 125 12/02-1 136-37 12/02-1 136-37 12/03-1 136-37 12/03-2 121-32 12/03-2 121-32 12/03-2 121-32 12/03-2 136-37 12/03-3 136-37 12/03-3 136-37	Incoming digit translation code which directs the initial translation as follows: ID_ILH = 000; trush is 1 way outgoing. POI; NET = 0, the digits of the station number are espected. These digits are used in the four-digit translator specified in ID_ADY are the digit to an expected. Innove the digit translator specified in the ID_ADY seems of the digit translator specified in the ID_ADY seems of the translator on first digit received. 100; code of the translation of first 3 digits received. 101; und one-digit translation of first 3 digits received. 102; translation of the station number are espected. Form a s-digit number from noat and 3 received digits, then use 4-digit translation.

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FIGURE 12D (continued) TRUNK GROUP TABLE

NOTES (continued):

1. DATA CROSS-REFERENCE AND DESCRIPTION (continued)

DATA	INFUT	f		S FORE	DESCRIPTION
		RETWORE	PUBEER	CCLUMN (S)	
IP_I	RC:GRP	1	3204-1	55	Pultifrequency Inguising: INF = 0; dial polse inpulsing expected from far office idefault case).
	1	-	3204-1	54 	= 1; muitifraquency inpuising expected from far office. If CIFCUIT COIF = 4, then 88 inpulsing im required.
tD_Auc	RC; GRP				Auxiliary information required for initial digit translation on liacoming cails. Interpretation is based on ID NEWS
	1		3202-3	35-37	ID_ILS = 1 or 2 ID_AUI B (2-0) = NOC
	1		3202-3		8 (5-0) * Table Selector maker (One Digit Translator).
	!		3202-3		Big-Di a Screening class
			13202-3		# 5 B [6-3] = Thousands Digit
	i	1	1		B (2-0) = NOC
BBS	RC:GRP	I EBS	3204-1	61	EBS = 0: Not a 911 trunk [use iaband end sulti-wink siqualiinq] = 1: Eacrgency Eureaa Service E911 trunk (See Figure 34, Note 0 for Scan Rate]
TP	RCIGRP	STP	3204-1	46	Stop-go:
	1				SIP * 0; interretion of puining is ot presitted on outgoing truck (defauit came). * 1; interruption of pulsing in permitted on outgoing truck. Required for outgoing trucks to SIS 7011 and SIS Tandea offices. Diel pulse outpulsing in required.
UDB	BC:GRP	AUCE	3204-11	47	Audibles
					AUDS = 0; do not return audible (default case). = 1; return audible on the outoping trans (outquing to

FIGURE 12D (continued) TRUNK GROUP TABLE

NOTES (continued):

1. DATA CROSS-REFERENCE AND DESCRIPTION (continued)

DATA	INPUT	HESSAGE	ISS FORM	DESCRIPTION				
		REAMORE						
SIG	RC: GRP	ISIG	2204-1 44,45	Type of signalling - for tall switch, recording completing operator, 2-way operator-ordice, 1983, and Verification (No-leas) trush groups: 100 = FF laband or saltitude signalling are not used. 100 = FF laband or saltitude signalling are not used. 110 = Noltivina signalling used for TSP or TSPS. 111 = Expanded FF laband signalling used for TSPS. 11 = Expanded FF laband signalling used for TSPS. 12 = FF laband or signalling used for TSPS. 13 = FF laband or signalling used for TSPS. 14 = FF laband or signalling used for TSPS. 15 = FF laband or signaling used for TSPS. 15 = FF laband or signalling used for TSPS				
INATOT	RC1GRP	IMAPOT	3202-3 29-30	Torminal Office Test Access Number Index. A one or 2 digit test access number index. Hongs I through whatever the maximum defined index is for this office (maximum of 31). See TOINTDI [ET]], The access number index ment be an assigned maker. A TCHAN I can not be specified for 159, 1359, or operator trunks.				
ROTOR	RC: GRP	IDGN	3204-163	NO_DGN = 0, run diagnostics via daisy chais. 1 do not run diagnostics via daisy chain.				
DGH	RC: GRF	010	3204-1162	Type of diagnostics during dainy chais. DGM = 0, continuity test only. = 1, run diagnostics per the TOTAME index toffice to office test)				

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FIGURE 12D (continued) TRUNK GROUP TABLE NOTES (continued):

CIRCUIT CORP DESCRIPTION AND THUSE CROSS - REPERENCE (See Note 3)

ODE	GRCDF		SD	CPS-PB
1	1	Two-way ESM Lead Irtnk with Type 2 Interface	1 3 8 2 2 0	382
1	1 1	Two-way 16M lead Truck with Type 3 Interface		391
1		D4 Direct interface circuit	30304	3C328
2		Spare		
3	-	Incoming Reverse Battery Trunk (wink or immediate)/911 Trunk		371
4	1 255	Incoming Beverse Battery Trunk (delay dial)	3H220	370
5		Outgoing Reverse Battery High-low Trunk		399
6	1	Spare	i	
7		Office to Office Test Trusk		4 29
17		Incoming Local Test Desk (No. 14 & 16)	38520	519
	128	Molding group for zeare trunks of indicated types	38220	370,371, 382,391, 399,429

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PIGURE 12D (continued) TRUNK GROUP TARIE

NOTES (continued):

3. TRUNK CIRCUIT CODE DEPINITION TABLE

		DESCRIPTION		OF		0 0	P 1		0.8	8 6	1	9 0 0	OF
CKT	1	DEDCHIFIACH		PORTS	٠.	9 5	PH (D	SPN	179	SPH	t D	TA
CODE	1			FURIS	1.								
	1.		1-		!"								1
1	i.	THO-WAY ESH LEAD TRUNK	1	1	1		1		0	1		!	
- i	ï	TWO-WAY ESH TRUNK WITH TYPE 2 INTERPACE	1	1	1	- 1			0	1 '		į.	:
- :	:	TWO-WAY ESH TRUNK WITH TIPE 3 I STERPACE	i .	1	8	- 1			0	1 1)	ı	1
1	1				i.			1		1		1	
2	1	SPABE	1	4	:				0	1 1)	i	1
3	1	INCOMING REVERSE BATTERY TRUNK			:					:		i	
	i.	(WINK OR IMMEDIATE)	1		9			1				:	4
41.	ï	INCOMING REVERSE BATTERY TRULK	1	1		- 1		1	0		,	:	•
7	:	(DELAT DIAL)	1		1			l l		1		1	
-	1	CUTGOING REVERSE PATTIEF EIGH-LOW TRUNK	ì	1	į.	- 1			0	1 1)	1	1
5	1							i		i		ė .	
6		SPARE						:	0		0		1
7	4	OFFICE TO OFFICE TEST TRUNK	1					!				:	i.
4.7	ï	INCOMING LOCAL TEST DESK (NO. 14 8 16)	1	- 1	4	- 1		1	4	8	9	1	

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) FIGURE 12E TERMINAL OFFICE TEST ACCESS NUMBER TRANSLATOR

		TCTAN INDEX (NCTE 1) T ACCESS NUMB	ENTRIES	6 5	!				[5]	/500	Note	
[TES	T ACCESS NUMB						i		1266	1056	,
			ER TAEL	E ADDRE	SS			-				
		FS										
1///	TRUNK MA	INTENARCE BIL	IING NO	MBER (S	EE PI	G. 2C N	OTE 3	10				
111	/////////////////			NPA1								
4 * TOTANIEX ///	,,,,,,,,,,,			BEA2		,						
1///	111111111111			NFA3								
NOTE 2	TLIA	71.18	1	TL1C	!	1	L 1D	10				
i	TLIE	1112	1	IL1G	i	TEIISIN	102111	BII				
1	TL2A	1L2B		T12C	i	1	L 2D					
	TL2E	TL2F	<u> </u>	TL2G	i	APT	AC1					
i								i				

MOTES:

1. Isolude entry 0.

2. Estries 1-63.

(CONTINUED)

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FIGURE 122 (continued) TERMINAL OFFICE TEST ACCESS NUMBER TRANSLATOR

NOTES (continued)

and coors presented and description

DATA	INPUT	MESSAGE	1 E	SS F	CBM	DESCRIPTION
DATA	i	KETWORE	PREBER	ITEB		
TL 1A -G		-	-	-	-	Persanent busy test line number. Digits are stored is ECD.
TL21-G	-	-	- 1	-	-	Operational test line number. Digits are stored in MCF.
TEI	-	-	- 1	-	-	= 1 Entry axists.
STN	TGTANI	SYNC	3505-1	-	42	 0 Non-synchronous operational test. 1 Synchronous operational test.
OPT	TCTANI	OPTH	3505-1	-	35-91	= 1 Operational test provided.
PBT	TOTANI	PBTH	3505-1	-	128-34	= 1 Perannent busy test provided.
APT	TOTANI	APT	3505-1	-	24	lutomatic progression test code. - O Bo test is to be performed 1 Persament besy test 2 Operational, synchronous test 3 Operational, non-wyschronous test.
INCT	1	1	1		1 -	Area code index for MPA's. Addresses words 1-3 of this tab

4. TOTANIDE is from trunk group data table | | See Figure 120|.

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FIGURE 13 SELECTION STATUS BLOCKS

GRPSTAT	ETI ENTRY (PIG. 13A)	
3 + GPS		
[1
		.]
!	TS	
	(FIG. 13B)	0 PBI/MUHG STATUS BLOCKS (groups 00-63) 511
(NOIS 1)	***************************************	512
	(FIG. 13C)	SERVICE CIECUITS (groups 64-127)
	i	1 1279
	(FIG. 13C 6 13D)	1280 2 MAY TRUBK CIRCUITS, CUIGGING TRUBK CIRCUITS AND INCORDING TRUBK CIRCUITS STRIUS BLOCKS . (groupe 128-191) 2047
	FIG. 13C 6 13D	2048 1 2 WAT TRUBK CIBCUITS, 1 CONGCING TRUBK CIRCUITS AND 1 INCORNING 'THUBK CIRCUITS 2 STATUS BLOCKS 2 (groups 192-255) 2 2015

HOTES:

- 1. The Selection Status Block Index (SSBI) & GPS are from the Group Table (Fig. 12). See miso Fig. 1A, para. 2B
- 2. The saxious number of words is determined as follows: a) There may be a saxians of 8 words in each PBI/BLHG status block depending upon the number of aesbersin each group, Cae PBI/BLBG status block is required for each PBI/BLHG. There may be a maximum of 64 PBI/HIBG. Therefore, there may be a maximum of 512 words in the PHI/BLHG status blocks.
- b) There may be a maxisus of 12 words in each trank and service circuit status block depending apon the nuater of aesbers is each group. Cae status block is required for each trunk or service circuit group. There say be a saxians of 192 trank and service circuit eroupa. Therefore there say be a asxisus of 2304 words is the trunk and service circuit status blocks.

2816 WORDS HAXINGS (NOTE 2)

PIGURE 13A SELECTION STATUS BLOCKS - HII FAIRY

BUMBER OF PET/HERG STATUS WORLS - 1 O| PBK/BLBG (groups 00-63) 1415 OR ZERC ----TS ADDRESS OF PREMILEG STATUS BLCCES 1010101111101//10 0 110 0 0 0 0 0 1 3 15 14 13 12 11 10 1// 8 6 5 NUMBER OF SERVICE CIRCUIT STATUS BOADS - 1 SERVICE OI CIBCUITS (groups 64-127) 4115 IS ADDRESS OF SERVICE CIRCUIT STATUS ELCCRS 1010101111101//10 0 110 0 0 0 0 01 6 15 14 13 12 11 10 1/// 8 6 5 NUMBER OF TRUNK CIRCUIT STATUS NORES - 1 OI CIRCUITS (groups 128-191) 7 1 15 TS ADDRESS OF TRONK CIRCUIT STATUS BLOCKS 01 . NOBBER OF TRUNK CIRCUIT STATUS RORDS - 1 0| CIRCUITS (groups 192-255) 10 | 15 OF 2 | FC 9| 3 IS ADDRESS OF TRUNK CIRCUIT STATUS BLOCKS 11115

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FIGURE 13E SELECTION STATUS BLCCKS - PEE/MIRG STATUS BLCCK

		1.0			
OBD	ACB1///// 0 151/////	////////// SH #MB ////////// 9 8 7	R#B STATUS	1///	
	1/15.	GROUE PEG CC	JNT	0	
	2115	GROUF USAGE C	011	0	
	3 15	CARLITCE COR	17	0	
	4115	SELECTION STATUS (MEMBERS 0 TO	BITS (5)	015	
	5 15	SELECTION STATUS (MEMBERS 16 TO		01	OPTIONAL,
	6 15	SELECTICS STATUS (MEMBERS 22 TO		i	ON HIGHEST
	7115	SELECTION STATUS (MEMBERS 48 TO	BITS 63)	0	HERBER NO.

HOTES:

1. DATA DESCRIPTION

WORD	ATAT	DESCRIPTION
1	ACB	ALL Circuits Busy. If ACB = 1, then all circuits are busy.
1	488	Status of Hight Bake Busy key.
	RMB	Remote Make Eusy keys.
	SH	status of Stop Hunt key.
1	1	

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PIGURE 13 C SELECTION STATUS BLOCKS - SERVICE CIRCUITS, 2 WAY AND CURGGING TRUNK CIRCUITS

	HAINT BUSY CCUBER LAST CRT IDLED 3 716		
i	GROOF FEE COUNT	0.1	
i	GROUF USAGE COUNT	01	
1	CARPICE CORE	0.1	
	CIRCUITS SELECTION STATUS BITS (CRIS 0 TO 15)	0	
	CIRCUITS SELECTION STATUS EITS (CRIS 16 TC 31)	0	CPTIONAL,
	CIRCUITS SELECTION STATUS BITS		
71 15	CIRCUITS SELECTION STATUS BLIS		
1		i	REMBER
7		Ī	HARBEN
11 15	CIRCUITS SELECTION STATUS BITS (CATS 112 TC 127)	0	

NOTES:

1. DATA DESCRIPTION

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PIGURE 131 SELECTION STATUS BLOCKS - INCOMING TRUNK CINCUITS

	r	15		
ROBD	01//////13	MAINT BUSY CCURTES ////////////////////////////////////	1111111111	
	1115	GRCUP PEG COUNT	0	
	2115	GROUF USAGE COURT	0	
	3 15	THRU SWITCE PEG CCUMT	. 0	
. 4	4115	CIRCUITS SELECTION STATUS BITS (CR1 0 TG 15)	. 0	
	5 15	CIRCUITS SELECTION STATUS BITS (CRT 16 10 31)	0	
	6115	CIRCUITS SELECTICS STATUS BITS (CRT 32 TO 47)	1	CHAL,
	7 15	CINCUITS SILECTION STATUS BITS (CK1 48 TG 63)	0	BEST
	1		1	BER
		***************************************	1 100	BER
1	11115	CIRCUITS SHECTION STATUS BITS (CKT 112 TO 127)	01	

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```
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PIGUBE 14
        THREE PORT STATUS BITS
            SESBER WOREES
          1 1 1 1 1 1
                     1 B 9
                                (BTI ENTEY)
    3PCSTAT
   10 | 1 | 0 | XE| 1 | C | / / 1 0 0 1 | 0 0 0 0 1 0 1
              15| 14| 13| 12| 11| 10|///| 8 6| 5 0|
              115 NUMBER OF 3 PCST STATUS ENTRIES - 1 41
                          CS 2EBC
                        IS ADDRESS OF 3 PCSI STATUS BITS
                       121///10 81///16
```

NOTEST

1. S2 S1 50 - Status bits for the 3 ports of each Conference Circuit.

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FIGURE 15 MEMBER LISTS

(NOTE 1)			HUHDER (
		1 3 1	B 1
[NOTES:
			1. The Bember List Index HLI is from the Group Table (FIG. 12). See also Fig. 1A, para. 1L.
,	F.S		
	(FIG. 158)	PREPRE	
		LISTS (groups 00-63)	
HLI)	
1 1	(FIG. 15C)	SERVICE	
(NOTE 1) E		BIMBER	
	MTG. 1581	2 WAY, COTGCING AND INCOMING TRUNK CINCUIT ERRER LISTS (groups 128-191)	
	(FIG. 15E)	2 WAT, OUTGGING AND 1 INCOMING TRONK CINCULT 2 BENNER LISTS (GROUPS 192-255)	

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FIGURE 15A MEMBER LISTS - MTI ENTRY

0	i	1	5	1	1	13	1	12	11	11	1	10	1/	11	1 1	3			6	1	5					0	01	
1		15			E		2	PI	1 2	ES	Be	. 2	E														0	PRI/ALEG
2		15						PS	i A	DO	RE	SS	-									IST	-				0	
3	i		1										1/	"	1 1)			1	1	0	0				0	0 1	
4	-	15		M	181	E		F	SV	c	CI	1	HE	#B	E S	LI	SI	80	FD:	s	- 1		13					SERVICE CIRCUITS
43	1	15				PS	1	EI	81	25	0	2	SE	84			-	-		-		B 1					0	
6	i	1	51	14	i.	13	i.	12	i i	11	ıi.	10	1/	"		3	0		1	1	5	0		0	0	0	0	
7	-	15	NUI	B	6	CF	1	80	NE		18	CU	11	H	E 81	836	L	SI	8	OR	DS	- 1	13					TBUNK CIRCUITS
8	-	15				2	S	AI	DB	ES	S	CF	1	RD	n K	CI						11		-			0	
9	į	0	51	1	1	13	1	12	1	11	1	10	1/	//	1 1	3				1	0				c	0	0	
0		15		88	8	01	1				IS		11	8	EE	836	11	SI		CB	ES	-1	1 3				0	TRUNK CIRCUITS
11	i	15				PS	1	13	BE	SS	0	£	TR	UN	K (IB	COI	11	8 E	ăВ	ER	LIS	115				0	

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FIGURE 158 PBX/NLHG MEMBER LISTS (FCRM#1 "00")

1	1 0	1411	0 (IN	NBER OF	SPARES)		716	NUMBER	OF SE	ARES	0	10
EFBER +1	115	RAB	13 12			TEN	(BERBER	0)			0	1
	115	RMB	13 12				(MEMBER	1)			0	1
	i	RMB					(NEMBER	2)			0	1
	1								*		:	1
	15		13 12			TEN	(HENDER)	н)			0	***
	1 15			•••••		TEN		н)		**************************************	0	*****

(See NOTES following Figure 15E)

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PIGURE 15C SERVICE CIRCUIT MEMBER 11ST (FOFMAT "10") REGULAR SERVICE CIRCUIT

	1 1	0 NUR 14 13 (INC	BER OF ME LUCING SP	HBERS ARES) 7 6	NUMBER OF SPARE	010
ENBER/2) + 1		SVCNER (C		017	SVCNBB (CK1 0)	o i
	115	SVCNBR (C	KI 3)	817	SVCHBR (CRT 2)	0
NOTE 1					SVCHBB (CKT 4)	0
MENEER + 1	i Ţ	SVCNBB (C			SVCNOB (CKI M-1)	
+ A/2 NOT E 1	15			8 7		01
	-	SPAF	E	!	SPABE	
	1 7					I A/2 -
	1					1 A/2 +
	15	CRTCODE	11 10	DT	N (CKT 0)	0
	15		11 10	DT.		0
	15	CRICGDE	11 10	D1.	A (CRT 2)	0
				SPARE		
						-

11 10 9 8 76 8 4 3 2 1 0

NOTES:

1. A = Highest Member Mumber + 1 (Number of Members) from the Group Table (FIG. 12C).

2. See NOTES following Figure 15E.

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FIGURE 15t SERVICE CIRCUIT BEMBER LIST (FORBAT "01") TORE AND ANNOUNCEMENT CIRCUIT AND COMPERENCE CALLING CIRCUIT

	0 1 NUMBER OF BENDERS 15 14 13 (INCLUDING SPARES)	NORBER OF SPARES	0 0
	///////////////////////////////////////	TEN (CRT 0)	0
EMBER +1	///////////////////////////////////////	TEN (CRT 1)	0
1	//////////////////////////////////////	TEN (CRI 2)	0
	1////////11	TEN (CRY 3)	0
	1////////12	TEN (CRT 4)	
			1
	 /////// /////// 12	TEN (CRT H)	
	SP	ARE	
	Ī		ĩ
	!		10

(See NOTES following Figure 15E)

FIGURE 15E TRUNK CIRCUIT MEMBER LIST (FCRMAT "11")

1	1 1 1 HUBBER CP BENE 15 14113 (INCLUDING SP)	BERS NOMBER OF SEARBS ARES) 716	0 0
	/////////12	SEN (TRK 0)	01
* # ###### +1	CRICEDE 11 10	DIA (TBK 0)	0
	1/////////	SEV (TRK 1)	0
	CKTCODE		0
L	1////////		01
		DIA (TRK 2)	0
	1		1
		SPH (TRK H)	
	15 CKTCODE 11110	DIA (TBK N)	0
		SPARE	j

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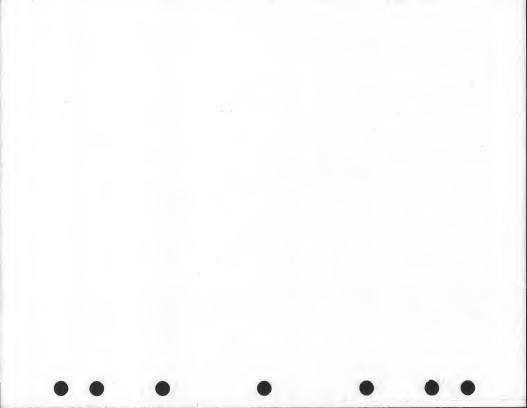
MOTES:

1. CATA DESCRIPTION

CATA	DESCRIPTION
BHB	Femote Make Busy key effecting this member (Max. of 7 SME keys per group)
TEN	Torsinal Equipment Busher
DTA	Cistributor Triplet Address
SPN	Scan Point Nuster
SVCNBB	Service Circuit Number 1 SPM for Service Circuita: 5 SPM bits (7-0) - Stcmb: 5 SPM bits (7-0) - 0
CKTCOLE	Circuit Code (See Fig. 12C, Note 2 5 12D, Note 2 for nusters)

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BOSIJNG ANT SCREENING TABITS

IBDIL C! FIGURES

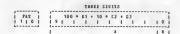
Figure 16 - 3-Digit Translations and IDDD (Country Code Table) Translator Figure 19 - Store and Pales and Pales and Figure 20 - 1-Digit Translation Figure 20 - 1-Digit Translation

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FIGURE 16 THREE DIGIT TRANSLATION





(CONTINUED)

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FIGURE 16 THREE DIGIT TRANSLATION (COSTINUED)

1 1		1		
A MINUS 100				
1 1		1		
!!!				
£>j				
NOTE 1	CCDE INDEX	1	CCDE INDEX	
1	₹B= 1₹	1	(B=0)	
!				
		1		

NOTE 2																									10
																									1
																									1
1											 														!
į	0	. !	0	0		0	. 1	0	C	1	11	00	٠	13	٠	10	*	D2	٠	D3) -	20	0		i
		1			١.		!			_!	 !			_!		1	!		1		1	1		1	!
i													1				C	30	2	IND	EX				ì
.!											 		1												1
i											 														1
i	1										 													- 1	1 25

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FIGURE 16 THREE DIGIT TRANSLATION (continued)

HOTES:

- 1. Dialed 11% Codes are converted to I11.
- (2. If a 3 digit match is not found, then the code index located in the last entry is used.
 - 3. The local area translator is usually a full translator and not a search table.
 - 4. FAT 0 is always required.
 - 5. DATA CROSS-REFERENCE AND DESCRIPTION

DAT	A	INPUT	MESSAGE	I ES	S FO	511	DESCRIPTION
			KEYWCBC	KOMEIR	ITER	COLUNN	
CCDE	INDEX	BC: DIG				124-26	Index
				1 3 300 - 2 1	-	27-29	

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FIGURE 164 THREE DIGIT TRANSLATION - CCCE INDEX EXPANSION

15

115

INTI ENTST | 0 | 0 | 0 | 1 | 0 | 0 |///| 0 0 1 | 0 0 0 0 0 1 | 15| 14| 13| 12| 11| 10|//| 6 6| 5 0| NUMBER OF CODE INDEXES - 1 STORE ADDRESS CCDE INCEX EXPANSION (NCTE 3) (PS) 1/////// | SCR TEL | TYPE = 1 I////// DIRECT ROUTE INCEL 2 * CCDE INDEX O PREFIX | SCF TEL | TYPE = 4 NOTE 1 CCDE INCET V////// DIRECT ROUTE INDRY 0 PREFII | SCR 18L | 13PE = 2 |

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NO PREFIX . | DIRECT ROOTE INCEX

(costinued)

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CODE INITY

(

(

PIGURE 16A (continued)

COLE	TABEL	REFARSTON	icontinued!	

15	CCCE I		SCB TEL	1 11PB = 3	0
15		S IRCEX SUELIX	DIREC	T BOUTE ISCRE	01
		,,,,,,,,,,,		TER 11PE = 7	
		,,,,,,,,,,,		CODE INCEX	01
					01
			///////////////////////////////////////		
15		ABEA E INCEX	1 CF1	FICE CODE INDEX	0 511

HOTES:

- Intries pointed to by "O" prefix code indexes must be defined in the first 64 entries.
 The following code indexes must be defined in each office:
 - 0 Vacant Code treatment 1 "Dial O" Operator treatment
- 2. "O" Prefix Code Indexes need not be defined if "O+" is not allowed for this office.

(continued)

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FIGURE 16A (continued)

NOTES (continued):

3. DATA CROSS-REPERENCE AND DESCRIPTION

DATA	INPUT		BUMBER		*****	
SCR TBL	BC:CDI	SCRIEL	13304-1	-	136-37	Screening table number
TYPE	RC:CDI	ETTP	3304-1			
DIRECT BOOTE	BC:CEI	RTI	3 30 4-1	-	39-41	Direct routs index
O PREFII CODE INDEX	RC:CDI	POCI	13304-1	-	27-29	 O Prefix code index (norsal)
NO PREFIX CODE	RC:CDI	NPCI	3304-1	-	21-23	 No prefix ccde index (normal)
1 PREFIX CODE	BC:CDI	PICI	3304-1	-	124-26	 Prefix code index normail
PEG COUNTER SUMBER	RC:CDI	PRC	2304-1	-	142	 Preroute peg counter
CODE INDEX	RC:CDI	CDI	13384-1	-	17-19	Code index
EAT	RC:CDI	PAT	3304-1	-	38	 Foreign area transiator (0 = local; 1-3 = foreign)
ARBA CODE INDEI	RC:CDI	ACDI	3304-1	-	30-32	Area code index (conflict)
CALICE CODE	BC:CEI	OCDI	3304-1	7	33-35	Office code index (conflict)

```
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FIGURE 162 COUNTRY CODE TABLE
               TABLE SELECTOR
            14552 00010100
               IBLSELCI | NCTE 2
           171 1 1 1 1 1 101
                          INTI ENTRYS
 | 0 | 0 | 1 | 122 | 0 | 0 | ///| 0 0 1 | 0 0 1 0 0 0 | | 15| 14| 13| 12| 11| 10|///| 8 6 | 5
                    BUMBER OF TABLES -1
                       OF ZERO
                          STORE ADDRESS
      10 .
      TBLSELCT
         1---
           MAIDIG | MINDIG | CODE INDEX | VALID TESHIBAL
15 12 11 0 | FWIRT (NOTE 5)
                                                                  PAGE 8
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PA-38303 SECTION 600 FIGURE 16E (continued) COUNTRY CCDE TABLE HOTES: 1 1. IBLSEICT - THEIR number to SELECT the next table. 2. The first digit of the Country Access Codes (CAC) is used with TBLSELCT = 1. After that, TBLSELCT comes from pravious digit. (See Note 6) MAXCIG - MAXIMUM number of DIGits dialed for country code. 4. MINEIG - MINIBUM number of DIGits dialed for country code.) 5. If the number of digits are exact for a country code, then SAIDIG equals SINDIG. 6. Current assignments require approx. 28 tables, 280 words. 7. The translator exists regardless of whether IDED screening is done or not. Without IDDD screening, only one table of 1D words is in the translator. With IDDD screening the translator is at its full size. Table zero contains different data in each case. The Table O Eigit O entry is used in routing to the error return when IEED screening is not done. With IDED, Table 0 Digit 0 entry is used in routing operator calls (010), and Table 0 Digit 1 entry is used to access Table 1 (TRISELCT = 1) . WITHOUT IDDD WITH IDDD TABLE 0 TABLE O CDI 10 EBRCR TREATMENT 010 ----> f CDI ------|------TARLE 1 ROLLYZIAN JAGI ON L'OOCOOOOOOOOOOOOOOOOOOOOOOOOOOOO 011.01x ----> 11111111111000000001 1 ----------CAC IST DIGIT (FRETT) (EBPTY) i----> t------010 * equivalent of 0- calls Oll = equivalent of 0+ calls (followed by CAC) Oly = equivalent of 1+ calls (X = 1st digit of CAC) ESSUE 3 PRINTED IN U.S. A. PAGE 9

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```
FIGURE 17 SCREENING TABLES
```

SCTBLS	(MTI ENTRY)	
	0 0 1 1 0 0 /// 0 0 1 ESI 15 14 13 12 11 10 /// 8 6 5 0	
	NUMBER OF SCREENING TABLES - 1	SCHIBL
	STORE ADDRESS	FRCE CODE INCRE EXPANSION
	SCREENING TABLES (ES)	SCREENING CLASS NUMBER
10	· · · · · · · · · · · · · · · · · · ·	SCR 1 1 0
SI +2) * SCRIBL		(PROB OBIGINATING LIMP TRANSLATICE)
SCR		
	TOVI CHARGE INTEX BOOTE INDEX 15 14 8 7 0	
		4031 HAX (MCZE 1)

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FIGURE 17 SCREENING TABLES (continued)

HOTES:

- Maximum necessing table size is 63. All screening tables must be the same size. A accessing class of 63 indicates
 that no occessing is to be performed, and is not entered in the accessing table. Maximum size is therefore 64
 tables 63 entries = 0032.
- 2. ESI Entry size indicator (from word 0 of ETI entry). See Fig. 1 for details.
- 3. DATA CROSS-REPERENCE AND DESCRIPTION

DATA		MESSAGE	NUMBER	ITEN		DESCRIPTION
IEA	BC:SCB	TD	3301-1	-	28,etc	[Toll diversion (filts only)
CHARGE INDEX	RC:SCR	ÇBI	3 30 1-1	-	23-24	Charge index
RCUTE INDEX	RC:SCB	RTI	3301-1	-	25-27	Noute index

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PA-3H303 FIGURE 18 ROUTE INDEX EXPANSION BOUTH INTEX 17 | 1 | 1 | 1 | 0 BIEKP (HTI ENTSY) 1 15 | 14 | 13 | 12 | 11 | 10 |//// 8 6 | 5 NUMBER OF ROUTE INCEXES - 1 STORE ADDRESS ROUTE INCEX EXPANSION (PS) CUTCVER RGUTE INDEX 1 TYPE = 1 10 1 15 1///////////////11 413 ICP_RT1 OTO-TEST-RI 817 2 * BCUTE INDEX | PREFIX DIGIT 0 | PREFIX DIGIT 1 | PREFIX DIGIT 2 | TYPE = 2-5,7 DIT |////AFF | FREE |////// TRUNK GROUP NUMBER 115 13//// | 1////////7 (continued)

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SECTION 600

PA-38303 SECTION 600 FIGURE 18 (continued) SCUTE INDEX EXPANSION (continued) SABLE Million and a second and the second and the second DEST # 8 | FREE; TH | CL | 11 10 1 9 1 8 17 CONVERSION I 12111 817 NOTES: 1. ABP = 1 - Alternate Route Index provided. 2. CCRI = 1 - Cutover route index present. 3. TYPE = 0 Unassigned = 1 Intracffice (ROUTE INCEL = NOC) = 2 10 digit interoffice (no cverlap outpulsing) = 3 10 digit interoffice (overlap outpulsing permitted) = 4 7 digit interoffice (so overlar outpulsing) = 5 7 digit interoffice [overlap outpulsing permitted] Destination determined by the "DEST" code in the route index expansion entry. Interoffice (outpulse received digits) (continued)

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FIGURE 18 (continued) SOUTE INCEL EXPANSION
  NOTES (continued)
  4. CL = 1 - Class of service tope to recording completing operator.
  5. DEST - Destination code:
        0 - Vacant circuit group
        1 - Vacant code operator - no outpulsing trunk group (connect trunk after timeout on received digits) cut thru
             based on PREE bit or answer supervision received
        2 - Recording completing operator - No outpulsing trunk group - (connect trunk immediately) cut thru based on FRES
             bit or answer supervision received.
         3 - Tones which timeout
        4 - Iones with no timeout
         - Announcement 1ccal
        6 - Boute to reorder
         7 - Station ringer test
        E - Convert dialed digits to a 4, 5, 6 or 7 digit number
         9 - Balance test line
         10 - Interrupted milliwatt test line
         11 - Synchronous test line
         12 - Loop around test line 0
         13 - Loop around test line 1
         14 - Short circuit test line
         15 - Open circuit test line
         16 - Charge test line
         17 - Continuous miliiwatt test line
         18 - AC/DC open circuit test line
         19 - Space
         20 - Autoconnect
         21 - BCIL input terminal
  6. Assigned Foute Indexes
         Foute Index
                       Discontinued or changed number
                       Trouble intercert
                       Blank 4-digit number & unassigned number
                       manual line
             12
                       Denving custom Calling services
             13
                       Permanent signal announcement
             14
                       Permanent signal tone
             15
                       Personent signal operator (non-ccin)
                       Permanent signal operator (coin)
             16
             17
                       Partial dial announcement
             18
                       Invalid 1-digit translation error
             19
                       Auto-connect tusy tore
             20
                       Auto-connect high tore
             21-31
                       Reserved
```

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PIGURE 18 (continued) ROUTE INDEX EXPANSION

NOTES (continued):

7. ICP_RII = The Boute Index to be used when a line is assigned to intercept by Recent Change.
If not specified (i.e., ICF_BII = 0), RI = 8 will be assumed by the program.

8. DATA CRCSS-REFERENCE AND DESCRIPTION

DATA	INPUT	MESSAGE	ESS	S FOR	1	DESCRIPTION				
	1	KEYWORE	BUMBER	ITES	COLUMN					
CUTOVER ROUTE	RC:RTI	CRTI	3303-1	-	23-25	Cutover route index				
OTO-TEST-RI	RC:RTI	ORTI	3303-1	-	26-28	Office to office test route index				
PREFIX DIGIT	RC: RTI	PPX	3303-2	-	26-28	Prefix digit				
DLT	RC:RTI	DLT	3303-2	-	25	Number of digits to delete (1-7, but not all)				
PREE	RC:RTI	FREE	3303-2	-	36	Free calls; no charge over this route				
DC-D6	BC:RTI	DIGIT	3303-2		29-32	Conversion digits - stored in BCD				
D IGC N	RC:RTI	DIG	3303-2		29-32	Conversion digits count				
TH	RC:RTI	TONE	3303-2		37	Tone (when CI = 1) 1 TN = 0 - use Low Tone 1 TN = 1 - Use High Tone				

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FIGURE 18A ALTERNATE ROUTE INCEX EXPANSION

(STI ENTEY) ARIENP 1011101110111/// 001 SCUIR INCEX 1 151 141 131 121 111 101///18 17 1 1 1 1 1 1 1 01 615 NUMBER OF SCUIE INDEXES - 9 1 8 1 STORE ADDRESS A BINUS 4 817 1123 HAX

NOTES:

DATA CRCSS-BEFFFERCE AND DESCRIPTION

EATA	INFOT	HESSAGE KEYWORD		FOR		DESCRIPTION
	ROUTE RC: BTI	IASTI	3303-2	-	33-35	Alternate route index
INDEX	1	1	1 1		1	
1	1	1	1 1		1	

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CHARGE TABLE (MIL ENTRY)

CHARGE INDEX (NOTE 2)	CHARGETE	111	PE	1			CV	FFII	BE			i			INIT	LAL			1
	1	1 0			13	0	0	1 0	0	0	0,	160	1 0	1	0 1	1	0 (010
t		0	1	1		TISE		1	CHARG			-	118	E	1	(HARG	!	-
		1	0	1		TIME			CHAR	E.			TIN	E		(HARG	!	-1
SEE TABLE ON NEXT PAGE USING ENTIRE CHARGE INDEX	19																		-1
		ī																	1
		0	0	1		1 1			1 1			!						1	-i

MOTES+

1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT	HESSAGE KEYWORE		ITEN		DESCRIPTION
TYPE	BC:CBI	ETYP	3302	-	19-20	Charge index entry number = 00 vacast entry = 01 coin entry (CM = 01 ensmage rate entry (NB)
INITIAL TIME	RC:CHI	ITS	3302	-	21	 Initial time = 0 local untimed call = 1 to 7 minutes - local timed coin or timed MR call
INITIAL CHARGE	RC:CHI	ICU	3302	-	22-23	 Initial charge units = 0 - fixed initial charge deterained by coin phone (5-45g) = 1 to 15 aassage unita - tiaed or untimed MS
OVERTIME TIME	BC:CHI	OTH	3302	-	24	Overtime w 1 to 7 minutes - local timed coin or timed HB call
OVERTINE CHARGE	RC CHI	ocu	3302	-	25-26	 Overtime charge units = 0 - coim overtime charge im 5g = 1 to 15 meanage units - BB

CHARGE INDEX INFORMATION FOR FIGURE 19 (SEE NOTE 2)

	_			SE	E N	03	E 2		
CHARGE	_				BI	LI	ING	11	IPE I
I BDDA									
									1
0 1		1110	sps	1					- 1
1 1		Fre	8						
2 1		ABA	-		TS		bas		Special
3 1		AMA					and		Interstate
1 4 (AMA	-	H A			bas		Interstate
5		AMA					bas		Interstate
6	i	ABA					and		Interstate Interstate
7	1	AHA		HA			and		
8	1	ABA		N W	15	B	and	6	
9	1	AMA		WA	13	£:	and	7	Interstate
1 10	1	AMA							Intrastate
1 11	1					B	and	9	Intrastate
	1	AMA							
1 13	Ĺ	AMA		Re					
1 14	1	AMA		Un					
1 15	1	AMA	-	To	11	C	all		
1	†-								
ICHARGE	ı	ABA	1	NC	FE.	IC	E	(1)	SCETWARE M.R.
INDEX	ı			NC					
1	ı	C	OI	H C	HL	L		(3)	HABDANE Dene
1	4-							!	
1 16	٠	AMA		BT	MB		1	!	
1 17	۱	AMA			MB		2	!	USE
1 18	ı	AMA					3	!	022
1 19	1	ABA			MB		4	1	CHARGETE
1 20	!				MB		5	1	CHREGETE
21	ŧ	AMA		BE			6		FCB CCIN
1 22	ı						7	!	rea cera
1 23		ARA		HE			8	:	CEARGES AND
1 24	1	AHA		TH			9	1.	CERROLD MAD
1 25	1	ABA					10	1	BESSAGI BATE
1 26	1						11	1	DECEMBE SHIP
27	1	ANA	11.7	LEB	O.E.	T	12	i.	EEGGING
28	1		11	LEN	M S		13	1	
1 29	1	ADA	0.7	T T I	O.F.	T	14	:	
1 30	1	ABA		ITH			15		
1 31	۱	***			n.	**			

HOTES: (continued)

 When an office has AMA for message rate calls, am AMI (Message Hilling Index) is used and the CHARGETB is used if there is also a hardware message register to be pegged. PA-3H303 SECTION 600

FIGURE 19A INITIAL CHARGE

NOTES:

1. ITLCHG = Increment on initial charge for Hotel-Hotel hardware message registers.

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TABLE SELECTOR

15 1 1 1 1 101

PRON TRUBE GROUP DATA OR PROS QUE

DIGIT TRANSLATION TABLE ENTRY

SECTION 600

(STI ENTSY) 10101111110101///10 0 110 0 1 0 0 01 151 141 131 121 111 101///18 615 ------NUMBER OF TABLES -1 OF ZERO -----STORE ADDRESS

10 * TBLSEL | 1

1////// 131 12111 | | 817 | | | | 1 | 01

1639 BAX.

NOTES:

DIGIT 1

1. DATA CROSS-REFERENCE AND DESCRIPTION

1///// TYPE | NDE

FIGURE 20 ONE DIGIT TRANSLATION (INCOMING INDUKS)

· INPUT MESSAGE | ESS FORM ,-------I KEAMCED! RAWBER LILEN COLDUN IRC:ODIG | NCE |3209-1 | - |24 | Number of digits expected over this trunk (type 2 6 3) (continued)

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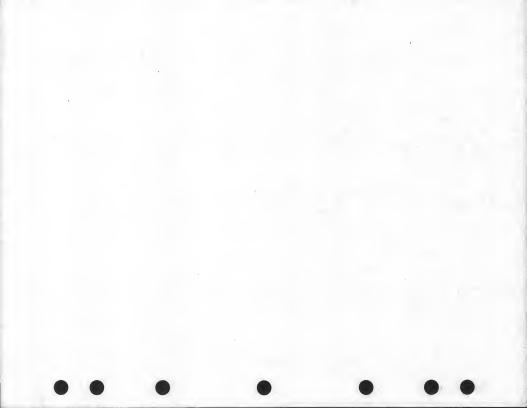
FIGURE 20 (continued) ONE DIGIT TRANSLATION NOTES (continued)

2. TIPE = 0 Error, Invalid digit Auxinfo = 0 (in program, route index of 16 im supplied).

- 1 Incomclusive: Auxinfo = Table selector susber for another table to be used in translating the next digit.
 NEE = 0.
- 2 Locally terminating call Auxinfo = Normalize office code (NOC).
- a 3 Tandes call Auxisfo = Route index

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PIGURE 21 LINE CLASS CODE TRANSLATION

LCC INCEL

| 7 | | | | | | 0 |

FROM 4-CIGIT TRANSLATOR

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NCTES:

1. DATA CRCSS-REFEBENCE AND DESCRIPTION

DATA	INEUT	KEYWCBD		ITER		DESCHIPTION
ICC INDEX	BC:ICC	ITC1	3306-1	-	117-19	line class ccde index
ASC1I1 to 3	RC:LCC	LCC	3306-1	-	20-22	3 character line class code used by TELCC's (see Note 2)
FTY	BC:TCC	PTY	3306-1	-	123	Party number
BATE	BC:1CC	BAX	3306-1	-	124	Fate class for charging
SCR	RC:LCC	SCR	1306-1	-	129-30	Screening class number
imaj .	RC: LCC	LABI	3306-1	-	127-28	Terminating major class (See Figure 2C, Note 8)
CMAJ	RC:LCC	LANO	2306-1	-	25-26	Originating major class (See Figure 2C, Note 8)

2. The tollowing table is used for coding or decoding 8-bit ASCII 117 codes; the eighth bit (parity) is always zero:

TTY	BINARY	111	BIKARY	111	EINARY
CLAR	CODE	CHAR	_CCDE_	CHAR	CODE
A	01000001	М	01001110	0	00110000
8	0 10 000 10	C	01001111	1	00110001
C	01000011	P	01010000	2	00110010
D	0 1000 100	g	01010001	3	00110011
2	01000101	2	01010010	4	00110100
F	0 10 00 1 10	S	010 100 11	5	00110101
a	01000111	7	01010100	6 .	00110110
H	01001000	ō	01010101	7	00110111
I	01001001	Y	01010110	8	00111000
J	01001010	W	01010111	9	00111001
	0 100 10 11	ï	01011000	,	00111001
ž.	0 100 1 100	Ÿ	01011001		
	01001101	ž	01011010		

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FIGURE 22 NOC & NPA CCHVERSION TABLES

FIGURE 22A NOC TO OFFICE CODE CONVERSION TABLE

NORMALIZED OFFICE CODE

нос

MORKO.

1. LIDX = Local NEA index.
2. D1,C2,D3 = NEE in BCD corresponding to NCC.

FIGURE 228 LOCAL NPA TABLE

> NCTES: 1. N.P.A = NFA in BCD.

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PIGURE 22C MPA FOREIGN AFEA TABLE

NPAFAT	(NOTE 3)	1	STI ENTE	1)			
FAT	111111111111111111111111111111111111111	FNO	617	FPO	413	FAO	0
NCTE 1	111111111111111111111111111111111111111	FW1	1	PP 1	1	FAT	
		F 8-2	1	PP2		FA2	
	111111111111111111111111111111111111111	P & 3	1	PP3	-	FA3	

ROTES:

- 1. See Figure 16
- 2. FNn, PPo, PAD NEA in BCD
- 3. NPAFAT is only accessed by office records to output NPA on 3300 Form

FIGURE	23	MISCEL	LAMECUS	OFFICE	PARAMETERS	(INCLUCING	ASSIGNED	DIA"S	AND	SEN*s)	
FIGURE	2 3A	OFFICE	MOILE	NORD							
CFF D	ATA				(81	I FNTRVI					

FIGURE 23B OFFICE IDENTIFICATION

CFFICE		(811 8	HIRTH		
	15	MUMBER OF	CHARACTERS -	-1 0	10
	15	81	817	H2 0	h
		н3	1	84	12
		H5	1	н6	13
		H7	1	H8	14
		H 9	1	1110	15
		H11	1	812	6
		H 13	1	814	17

FIGURE 23C W. E. CC. BASE AND CONTROL NUMBER

WEBCN		(81)	(rarus)		
	·				
	115	W 1	817	W2	010
	1				
	l l	и3	4	96 AL	11
	1				
	l .	W5	4	W6	12
	4				

(See NCIES following Figure 23J)

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	ABA TERBINAL ICENTIF	421/00	
DITABA		7	
	A1 A2		
i_	A5 A6 †	j	
FIGURE 23E	NUMBER OF SCREENING	CLASSES	
SCRSIZE		ENTSY)	
	1//////////////////////////////////////	///////15 SC#SIZE	0
FIGURE 23F	TEST PANEL ASSIGNME	NTS	
TLIPL	(8)	II ENTET)	
	1//////112	3EK1	010
	//////12	TEK1	011
FIGURE 23g	NO TEST TENS		
NOTEST	8)	TI ENTRI)	
	//////112	PINE	010
	//////112	II ERIRI) STRE SENO	011
	1//////112	CINE	012
	1/////112	CINE	013
	FAR IND TEST LINES	(RCTI)	
FETL	(8)	TI ENTET)	
	//////112	P1281	010
	//////112	TI ENTET) PTEB1 FTEN2	011
	TRUNK UNDER TEST TE		
TUTTL	(8)	II EN161)	
	1//////12	TIEN	01
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SECTION 700

PIGURE 23J DIAL TONE DETECTOR ALASH LTA

ETDADTA	ITE	ENTRY)	
)	,		
	1//////110	EDTA	0 i
	L		

HOTES:

1. DATA CROSS-REFERENCE AND DESCRIBATION

DATA	1 INPUT H		ES	S FOR		DESCRIPTION
	1	KETWCRD	BURBER	ITTER	CCLUBB	
EPG		DPG	3500-1	120	21-22	Cial Fulse receiver Group 0 = Dial pulse receivers are not provided 1 = Dial pulse receivers are provided
TOR	RC:OFFICE	HCT	3500-1	23	1 1	Segative 130 volts (-130V) 0 = Use +130V for coin collect; use -130V for coin return 1 = Use -130V for coin collect; use +130V for coin return
ZPLUS	RC:GFFICF	2 F L U S	3500-1	121	1	ZERO+ dialing $0 = 0 + calls$ not allowed $1 = 0 + calls$ allowed
SUP	RC:OFFICE	SUP	3500-1	122	21-22	Superimposed ringing 0 = Office has xc-OC ringing 1 = Office has superimposed ringing
ICF	RC:OFFICE	-	-	-	1	Frint CFV Changes 0 = Printing of customer dialed CFV changes not inhibited 1 = Printing of customer dialed CFV changes inhibited
FC	RC:CFFICE	PRECUI	-	-		Precut state 1 = Cffice is in precut state
FV	RC: OFFICE	6VS911	3500-1	40	21-22	Severse tip & ring for 911 service 1 = Reverse tip & ring
Ana	BC:OFFICE	ASA	3500-1	36	21-22	Automatic Ressage Accounting 0 - Office does not have LARA - software message registers may be used 1 - Office has LARA - software message registers are not used.
EW_A NA	RC:OFFICE	SET RESET	-	-	1 -	setwork Analysis 1 = Perfors metwork analysis 0 = DC NOT perform metwork analysis

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(continued)

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MCTES: (continued)

1. DATA CRCSS-REFERENCE AND DESCRIPTION (continued)

DATA	1	ESSAGE				DESCRIPTION		
		KETHCBD	BUPBER ITEB CCLU		CCLUBB	1		
SLO	BC:GFFICE	SLU	-	-	-	Subscriber Line Utilization		
7.5	SC:CFFICE	1192	-	-	-	Special		
co	RC:OFFICE	CHPORS	-	-	-	Complaint Ctserving		
H1 to H14	RC:OFFICE	OID	3500-2	00	19-32	1 to 1% alpha-numeric office identifier [ASCII code See figure 21 Note 2)		
ISN1	RC:LINE	FITP	3500-2	-	19	= 32, 4st TEN assigned to TLP1 (access Trk 0)		
SEN2	RC: LINE	ETYP	3500-2	-	19	= 33, 2nd TEW assigned to TLPI (access TRK 1)		
WIME	RCIOE	ETYP	3500-2	-	19	2 2, Notest wire test multiple - even TEM		
NTHO	BC:0E	ETTP	3500-2	-	19	= 3, Notest wire test multiple - odd TEM		
CTME	RC:CE	ETYP	3500-2	-	19	= 4, Mctest circuit test aultiple - even 128		
CTHO	RC:OE	ETEP	3500-2	- 1	19	= 5, Notest circuit test sultiple - odd TEN		
A1 to A6	RC: OFFICE	DIAMAID	3500-2	05	19-26	Eight character identification number (BCD code)		

NOTES: (continued)

2 0101 0000000000

DATA	DESCRIFTION
HIT	0 = HIT timing not active (Note 4) 1 = Do NIT timing on EP incoming trunks
ICS	(0,1) = Set the default for the CSL1 & CSL2 keyboards on BC:LIME & BC:ETL to lyes,no) (Note 4)
11 10 H6	Six character identification number [ASCII Code - see Fig. 21, Note 2]
SCRSIZE	Number of screening classes provided

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NOTES: (ccatinued) 2. DATA DESCRIPTION DESCRIPTION I FTEN 1 ist terminal equipment number assigned to BOTL 105 test lines FTEN 2 2nd terminal equipment number assigned to FCTL 105 test lines ITTEN Terminal equipment number assigned to FCTL trunk under test terminal ATG3 I Distributor triplet address for dial tone detector alarm 3. ASSIGNED SCAN FOINT NUMBERS I SCAN I POINT | SPN ECR NUMBER 1 |-----1 (0, 19, 14) (False cross and ground circuit 0 | (0,20,14) | Power cross circuit 0 | (0,21,12| |False cross and ground hire 0 1 10,22,12) | Power cross wire 0 | |0,23,10| | Palse cross and ground circuit \$ 1 10.24, 101 I Power cross circuit 1 1 (0,25,08) (False cross and ground Wire 1 1 (0, 27, 07) | Power cross Fire 1 | (0,21,14) | Ringing & tone plant interrupter test 0 | (0,27,11) (Ringing & tone plant interrupter test 1 | t------4. Bit may to set or reset by using "SII" or "RESEI" keyword in SC:CFFICE. (continued) ISSUE 3 PRINTED IN U.S.A. PAGE 11

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NCTES: (continued)

5. ASSIGNED DISTRIBUTCH TRIFLET ACCRESSES

TRIPLET DISTRIBUTOR TRIPLET ADDRESS FOR: DISTRIBUTOR TRIPLET ADDRESS FOR: TRIPLET DISTRIBUTOR TRIPLET ADDRESS FOR: ADDRESS DISTRIBUTOR TRIPLET ADDRESS FOR: ADDRESS Clicuit test vertical points 10.0,006; Trunk & line test panel triplet address No. 0; 13.1,245; Clicuit test vertical points (10.006; Trunk & line test panel triplet address No. 1; 13.0,255; Exercise test vertical points (1.0,006; Trunk & line test panel triplet address No. 1; 10.0,255; Clicuit test auxiliple avex/odd select (10.0,007) Trunk & line test panel triplet address No. 1; 10.0,255; Clicuit test auxiliple avex/odd select (10.0,007) Trunk & line test panel triplet address No. 1; (10.0,255; Clicuit test auxiliple avex/odd select (10.0,007) Trunk & line test panel triplet address No. 1; (10.0,255; Clicuit test auxiliple avex/odd select (10.0,007) Trunk & line test panel triplet address No. 1; (10.0,255; Clicuit test auxiliple avex/odd select (10.0,007) Trunk & line test panel triplet address No. 1; (10.0,255; Clicuit test auxiliple avex/odd select (10.0,007) Trunk & line test panel triplet address No. 1; (10.0,255; Clicuit test auxiliple avex/odd select (10.0,007) Trunk & line test panel triplet address No. 1; (10.0,255; Clicuit test auxiliple avex/odd select (10.0,007) Trunk & line test panel triplet address No. 1; (10.0,255; Clicuit test address No.				
13,1,245 [Clicuit test vertical points 13,0,056] [Frum & Ilane test panel triplet address No. 1] 13,0,252 White test vertical points 12,0,066] [Frum & Ilane test panel triplet address No. 2] 13,1,252 White test vertical points 12,0,066] [Frum & Ilane test panel triplet address No. 2] 13,0,056 [Frum & Ilane test panel triplet address No. 2] 13,0,056 [Frum & Ilane test panel triplet address No. 2] 13,0,056 [Frum & Ilane test panel triplet address No. 2] 13,0,056 [Frum & Ilane test panel triplet address No. 2] 13,0,055 [Frum & Ilane triplet address No. 2] 13,0,055 [Frum & Ilane triplet address No. 2] 13,0,055 [Frum & Ilane tr	TRIPLET	DISTRIBUTER TRIPLET ACCRESS FOR:	TRIPLET	CISTRIBUTOR TRIPLET ADDRESS FOR:
1 (1,1,127) Fattery boost DTA for Network Frame 15	13,1,244 13,0,252 10,0,253 10,0,253 11,0,253 11,0,253 10,0,250 10,0,250	Circuit test vertical points	(1,0,006) (2,0,006) (3,0,006) (0,0,007) (1,0,031) (1,0,033) (1,0,079) (1,0,055) (1,0,111) (1,1,031) (1,1,031) (1,1,031) (1,1,031) (1,1,031) (1,1,031) (1,1,031) (1,1,031) (1,1,031) (1,1,031) (1,1,031) (1,1,031) (1,1,031)	irunk 6 line test pamel triplet address No. 11 Irunk 6 line test pamel triplet address No. 21 Irunk 6 line test pamel triplet address No. 21 Irunk 6 line test pamel triplet address No. 41 Perote recording assourcesent circuit Battery boost DTA for setwork Frame 1 Istatery boost DTA for setwork Frame 3 Istatery boost DTA for setwork Frame 6 Istatery boost DTA for setwork Frame 7 Istatery boost DTA for setwork Frame 7 Istatery boost DTA for setwork Frame 8 Istatery boost DTA for setwork Frame 1 Istatery boost DTA for setwork Frame 1 Istatery boost DTA for setwork Frame 11 Istatery boost DTA for setwork Frame 11 Istatery boost DTA for setwork Frame 11 Istatery boost DTA for setwork Frame 12 Istatery boost DTA for setwork Frame 13

4

. .

PA-3H303 SECTION 700 FIGURE 24 ANA SUFFER TABLE ANA EJF INTL ENTERS 1 0 1 0 1 0 1 XE1 1 1 0 1///1 C 0 1 1 0 C 0 C 0 D 1 15| 14| 13| 12| 11| 16|///| 6 6| 5 0 I NUMBER OF WORDS IN PUFFER - 1 CF ZEFC TEMPORARY STORE ADDRESS OF AMA BUFFER 12 HOTE 1 14095 MAX (NOTE 3) NOTESE 1. The ANA buffer has 3 basic entries - Initial, Answer and Disconnect - With a number of other entries. The entries are byte oriented and need not start on a word boundary. The buffer is only accessed for data by the ANA programs. 2. XE = 1 if AMA in OFF DATA = 1 3. The size is fixed at 2000 words based on current fixed engineering rules, except when initially testing ABA capability in an existing office with Software Message Registers, in which case the size may be smaller (typically 100 words) . 4. On the initial run of an office either the office will have the AFA buffer allocated or the Software message Registers allocated, but not both. ISSUE 3 PRINTED IN U.S.A. PAGE 13 PA-3H303 SECTION 700

PIGURE 25 AUTCHATIC LINE INSULATION TEST

ALITUBD				(811	ENTRY)		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	1////////	1/1////	11111111	///////////////////////////////////////	///// FEMF TRG SE	G 1////	R NG I
	1////////	1111111	11111111	111111111111111111111111111111111111111	1/1/// 6 5	4 1///12	1 1 01

NOTES:

1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	I INFUT MESSAGE	I FURBER	S FOR		DESCRIPTION
EEME	IRC: CFFICE, MCDE	13500-1	130	122	Foreign EEF test in ALIT (Node = 4)
irg	RC:OFFICE MCDE	12500-1	130	122	Tip 6 ring to ground test in AIII Bode = 2
SRG	RC:OFFICE NCDE	13500-1	130	122	Short or ring to ground test in ALII (Mode = 1)
FNG	BC:OFFICE BANGE	3500-1	129	22	Fange for leakage resistance between lines 1 = 80k ohes 2 = 320k ohes 9 = 2.56 segobns

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PA-3H303						
						SECTION 700
FIGURE 26 MAINTE	MARCE IMPORMATION					
FIGURE 26A JUNCTO	E CIRCUITS					
JCT_RATE	•••	(MAI E	NIBY)		
1////	///////////////////////////////////////	11/11/1///	1111	11/1/11/11	///////	
PIGURE 268 SERVICE	E CIRCUITS					
SVC_RATE		dall s	NIRY)		
					///// SYCNC ///// 2 0	
FIGURE 26C TRUNK C	CIRCUITS					
TRK_RATE		(NII E	NTRY			
NGTES:						
	ERENCE AND DESCRIPT					
DATA	INPUT MESSAGE	E NURBE	RITTI	BICOTHER	NEGCET FILOW	
JCTNO	*RC:OFFICEIJC				Disgnostic rate for junctor circuits	
I S AC NO	RC:OFFICEISVC	13500-1	127	122	Diagnostic rate for service circuits	1
TRKHO	RC:OFFICE TRK	13500-1	128	122	Disgnostic rate for trunk circuits	
L						i
2. Values for JCT	NO, STONO 6 TRENC					
001 = One-hal 010 = One-gua 011 = One-eigl 100 = One-six	(can't do all) f of circuits diagn reer of circuits di hth of circuits dia teenth of circuits rty-second of circu	agnosed ea	ach d	day ay h day each day	D IN U.S.A.	
				thrull.	U AR UeJeAe	DAGE 1

FIGURE 26 MAINTENANCE INFORMATION (continued)

PIGURE 260 GENERAL SCHEDGLER MAJOR SEQUENCE TABLE INHIBITS

SCHEDINH (FIT ENTRY)

NCTES:

- A "I" in any bit position B of word a inhibits the general scheduler from executing that function.
 A "O" allows that function.
- This table is loaded by the CIA to all zeros. It is not Recent Changeable. Bits may be set in this table only upon explicit instructions from Bell Labs or from Western Electric EECC.

PA-3H303 SECTION 700 FIGURE 27 PRECUT TRANSLATION TABLE (811 ENTRY 10101011101011100000 C C 01 1151 141 131 121 111 101///18 615 01 NOTES: 1. SC - Status of the line cut-off. NUMBER OF SCHOOL IS TABLE -1 2. Relationship of TENE and TEN |-----STORE ADDRESS ,-----, TEN CG | RCH | CCI | 1-----(Also, see FIG. 2, NCTE 71 IENE = (CG-1) + 24 + BCM PRECUT STATUS CUT-CFF LIST (FS) 3. Table size is a function of the number of logical scanners. Size = LOGSCAN (Fig. 358) Number . 24. TENEi 1359 HAX.

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```
FIGURE 26 AUTOCCKNECT TRANSLATION TABLES
```

FIGURE 28A MESSAGE CLASS TABLE

FIGURE 288 CALL BACK NUMBER TRANSLATCE

```
(NTI EMES)

| 0 ( 0 | 1 | 1 | C | C | /// C 0 | 1 | 0 0 0 1 0 1 |
| 15 | 14 | 13 | 12 | 11 | 10 | /// E 6 5 0 |
| MURBES OF CALLBACK AURBUR TABLE

| FS ATCRESS OF CALLBACK AURBUR TABLE
```

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PA-38303 SECTION 700 FIGURE 28B CALIBACK NUMBER TRANSLATOR (continued) FACE PREVIOUS PAGE 7 * BTI FUNCTION = 0.3 MSGCI I TONE INDUI FUNCTION I FFIORITY I 115 | | | | 11|10 | 9| 8 |7 " 0,3 4|3 | | | 0| (SEE BELCH) I//////// TERMINAL FOUIFHENT NOMBER | E1 | D2 | D3 1 05 1 06 İ-----i 1 E9 1 D10 D12 D 14 SIGDIG _____ NOTE 3 | CA |////// WORDS O 6 1 (ABOVE) | 15|///// WORDS O 6 1 (ABOVE) | 15|////// WHEN FUNCTION = 8 \////// PBMCTICH \//////// \/////// = 8 4\//////// (continued)

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FIGURE 288 (continued) CALLBACK NUMBER TRANSLATION

								4			*	••	*	••	• •		•	•							-		-				-			٠.	• •		• •			-	••	٠,	-			••							
1 CA	1/	"	"	1	7	"	1	1	"	1	/	"	%	1	"	1	1	"	"	1	"	1	"	"	1	"	1	"	11	"	1	"	7	"	1	1	"	1	1	1	"	1	500	180	DS	()	3	1	1/	A E	CAI	E)
1///	11	11	11	7	1	"	1	1	'/	1	1			O I	10 E				//	1	7		r	DI	ic		0	H	-	1	1	"	1	11	1/	1	"	1	1	1	"	1	WI	(E)	M .	P	3 30	CI	I	N		9	
L					-	• •	-	-	•	-	-		-		••	•	••	•	•	-	•••	••	•	•••	•	•••				**	-		*	•	-		•		•	•		-4			•	-	-	•••					
e					-		-			•	-	• •		-	••	••	-		• •	•		-	•		•			••		• •		• •	•	•••	• •	•	• •			-	• •	٦,	-		••			••	•				•••
1 CA	1/	11	1	11	1	//	1	1	1	1	1	1	1	1	11	1	1	1	11	1	//	11	BA	21	11	11	"	1			B	El	,			1																	
1 15	1/	11	"	11	1	,,	,	1	,	,	1	,	1	1	,,	1	1	1	11	1	//	i.		6	1	11	"	14							1	11	,	"	1	1	11	1	18	DRI	DS	. ()	8	1	(1	A B	DA.	E)
1											-			-						-		٠.				-	-			• •					٠.							٠i											
1///	,,		,		,,	,,	,,	,	,,	.,	,	,	,	,	,	,,	,	,,	,,	ŧ			2	01	(C	11	0	N		1	1	,,	,,	,	٠.	,,	,	,	,	1	,	1	50	HE:	H	21	UK	CS	IC	100	=	1	0
1///	"	"	1	;;	έ,	1	٠,	7	í.	٠,	0	,	í,	7	7	i,	1	,	i,	i.	7					10	1			a i	1	11	i,	1	ń	i,	/	i,	1	7	1	/1											

WC1ES:

- 1. MSGCI3 is a number inputted via a TIT message. It is the same number as found in the CALLBACK table. (see Note 4)
- 2. The DED bit in Entry 0 is always set for the maintenance TIY. (see Note 5).
- 3. The number of entries in the CALIBACK table are autoconnect user limited. The standard autoconnect users are: Remote maintenance, traffic, service ciders and repair service tureau. There may be other users such as: BII moditor 6 testern Flectric Co.
- 4. DATA CROSS-SEFERENCE AND DESCRIPTION

DATA	INPUT	MESSAGE KEYWORD	NOPBER	S FCB		DESCRIPTION
AC1, AC2	RC:LINE	IAC	-	-	-	Automatic autoconnect trigger number 0 = not automatic 1 = automatic
TN1, TH2	BC: LINE	TH	2100-1	-	17-23	Autoconnect trigger number
TIT	RC:TTY	TTTL	3500-3	-	119	1717 controller runber
TIREOUL	BC: LINE	TC	-	-	-	Humber of neconds that ITT channel can remain idle waiting

(continued)

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NCIES: (continued)

4. DATA CROSS-PEPERENCE AND DESCRIPTION

DATA		,				DESCRIFTION
40.40		I KEY CED				
SGCLS	RC:LINE	1010				Meseage clees pueber
120072	INCILINI	ICES				
	1					0 = maintenence
	1		1			1 = tackup eeintenance
	1					2 = service orders
	1	1			1	1 3 = traffic
	i i	1 1			i	4 - repair service bureau
	* 1	i i			i	1 5 * office records
	11	1				6 = regional accounting office
	!					1 7 spere
	!	!				
		1				8 = ABA primery
	1					1 9 = AMA backup
	1	1				10 = SCTL data
	1	1	1	1 - 1	I	~11-15 = spage
TTTC	BC:LINE	TTTC	- 1	- 1	l -	
TTE	 RC:LINE	I PORT	-			ITTY physical scrt number
	1	1	i .	i .	i	
CONE	RC:LINE	ITONE	-	1 -		Defines the cerrier tone of the data set
	1	1	i	1	1	03 = high tone (no timing)
	1	1	i	i	i	01 = 2025 hz time 30 sec)
	i	i	i	i	i	1 10 = 2225 hz Itige 30 eec)
	i	i	i		i	1
RDB	IRC:LINE	INCE	i -	i -		INc dial back
	1	1	i	i i		0 = call return number
	1	ì				1 1 = use dedicated
		1	i	:	i	1
00	IRCILINE	IAUTO	i -	i -	-	Automatic dialyr option
	1	1	i	i .	i	0 = feature not desired
	į.	į	i			1 = feature desired
PRICRITY	BCILINE	IBBIOB	-	-	-	
	1	1			i	ineeds any of the existing autoconnect fecilities that are
					i	in service.
NITE	INCILINE	INIGHT	-		1 -	
			i			0 = day LTE
	1		:	:		1 1 = night LIE
		!	F	1		i - arduc riv

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NOTES: (continued)

4. DATA CECSS-REFERENCE AND DESCRIPTION

DATA	I INDUT F	ESSAGE	ES	S FOR	8	DESCRIPTION
	!	KEYWCFE	NUMBER	ITEN	COLUMN	
FUNC TICN	RCILINE	ETYF	-	-	- - 	New functic 0 - TIT 1 - reserved 2 - reserved 4 - 7 - space 4 - 7 - space 5 - 1 - construction 6 - 1 - construction 6 - 1 - construction 7 - 1 - construction 8 - 1 - construction 1 - 1 - 1 - 1 - space 1 - 1 - 1 - 1 - space 1 - 1 - 1 - 1 - space 1 - 1 - 1 - 1 - space 1 - 1 - 1 - 1 - space
N E N	BC: LINE	CE	-	-	-	Terminal equipment number.
CO TO D14	RC:LINE	RIN	-	-	-	Callback number in BCD (zero = 1010)
BR	RC:LINE	TER	-	-	-	 Bomber number in the trunk group for FUNCTICH = 8 BCTL user identity digit for FUNCTION = 10

5. DATA DESCRIPTION

SA	DESCRIPTION	APAG
0 - 137C is net a dedicated AC controller 1 1 - 57YC is a dedicated Controller CA 1 - callback muster entry active	controller	
1	coller	
ISIGDIG Number of digits in corre		CA
		SIGDIG
BABL SECTA Automatic seintcannec lisit 0 can ciscove er te the out of service limit of trunks in a group 1 can remove sore than the out of service limit of trunks in a group	vice limit of trunks in a group	

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EQUIFMENT AND TRAFFIC INFORMATION

INDIA OF FIGURES

Figure 29 - Office Definition Data Figure 30 - Tape Definition Eata Figure 31 - Store Address Figure 32 - Write Frotect Table Figure 33 - Traffic Data Figure 34 - Scan List Figure 35 - Growth Parameters

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TICPBS 4	2007) [BTI EMPRY]
14*TTYC1	
t	CONTROLLES FARABETES SLOCE I/O ATURESS 413 0 CONTROLLES FARABETES BLOCE ADDRESS
	15 8SGCLS 111//////////////////////////////////

PIGURE 29B EQUIPPED I/C CHARBEL

EÇIOCHAN		,	1	2	0	O	C	20)								111	11	1	EB	T	8 3	1												
1	1//																				H:	51	C	вы			_				. 1	CH	N		
CHANNEL NO.	1//	′′	"	"	//	"	//.	"	//	"	"	/	"	/	1,	•	1			1		1			ŧ		5	34			. 1				01
*1	1	-					10	C=	0		-	-	••			= (•	CHI	=0	-		-
1	115	5	1		1		1		1	1		ı	1	0	ı	9	1	//	1	//	11	11	1	11	1	11	/	14			1	-		1	0 (
L)	L	• •							+•	• • •		-	••	•	• •		••		•-				-				-								4
	1						10	C=	1						10	=	10	1	"	11	11	11	1	"	1	11	1	6			CHI	j= 1			- 1
	115	5	ı		1		1		- (1		ŧ	1	0	i	9	i	//	//	//	1	//	1	11	1	11	1	14	- 1		1			1	0

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PIGURE 29C EQUIPPED MICROSTORE

INTI ENTRY |

		7		6		5	- 4	٠.	3	2		1		e	_
										 					-4
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1							- 1	0	0		1	-	1	. i
111111111111111111111111111111111111111			2	IC_	VE	8		- 1			ECI	D			i
										 					-

NCTES:

1. There are six possible TTY controllers and 2 spare entries.

2. DATA CROSS-REPERENCE AND DESCRIPTION

LATA	I INPUT N	ESSAGE	ES:	FOR	H	
	i	REAMCRE	BENBER	ITEN	ICCT OR R	DESCRIPTION
HS P	RCITTY	88	3500-3	-	12€	1 = 11% controller is arranged for a high speed printer
CP	RC:TT	PAR	3500-3	-	25	Parity check 0 = so 1 = yes
CABNON	RC:TTY	RO	-	-	-	Monitor flags for ports 0-3. Port is used as a somitor port.
CPWRU	BC:TTY	TREE	3500-3	-	26	NBU test flags for ports 0-3. 1 = do NBU test on port.
NC_VER	RC:OFFICE	RICRO	3500 - 1A	45	122	The type of FC circuit packs the sicrostore is equipped with: IDIS 10.5D=1C9.10-02
	į	i			i	4 = 6A 4C158,159,200,201(0) 5~15 (Euture)

NOTES: (continued)

3. DATA DESCRIPTION

DATA	DESCRIFTION
CPEENI	(Number of 777 controller parameter block entries -1
MSGCLS	Message for autoconnect on this TTY controller. See definition in Figure 28, Note 4.
CPEEQ	Equipped flags for ports 0-3. 1 * port equipped.
ns ich n	Total number of standard equipped main I/C channels (1 or 2)
NC BN	Total number of equipped main I/C channels (1 or 2)
С	[Channel 0 = standard channel 1 = special channel
CME	Channel number
toc	Address of main channel (3 cut of 6 code) (See FIG. 30 Note 5)
HOD	Each bit is an equipped module of microstore. Each mod is 1024 words.

PA-38303				SE	C110# 800
PIGURE 30 T	APE CEPINITION DATA				
FIGURE 30A T	AFE CPTIONS				
TAFEOPTS	(MII ENIRY)				
	\\\\\\\\\\\\\\\\\\				
		BCTES:			
FIGURE 308 E	VEN TDCS	1. PT = Pr	eferred tape	data co	streller.
TAPEQUE	(HII ENTRY)	2. BAINCHE	- Hain chans	el addr	rss = 0. (see sote 5)
	NUMBER CF ECUIEERD EVEN ICCS - 1	3. SUBCHNO	TDC1	annel add	dress for:
FIGURE 30C OF	DD IDCS	4. TDCS =	Tape data com	troller	
TAPEQUO	(MII ENIBY)	5. 3 out o	f 6 code tabl		
	NUMBES OF EQUIPPED ODD TECS = 1	NUMBER			BINABI CCDI
PIGURE 3CD I	C ACCRESS DEFINITION FOR ALL TECS	0 1 2 3	000111 001011 001101 001110	10 11 12 13	100011 100101 100110 101001
TAPETBL	(MEI ENTRY)	5	010011	14	101010
1	NOMERS CR DEFINED TOCS	6 7 8	010110 011001 011010	16 17	110001
	HAINCHH SUBCHHO //////////////////////////////////	9	011100	19	111000
i	HAINCHH SUBCHM1 ////////////////////////////////////				
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FA-38303	
FIGURE 31 STOFE ADDRESS	
PIGURE 3 %	
LSTESURE (RTE EMPS) ADDRESS OF LAST WORL IN TERCEPART STORE	
PIGURE 318	BCTES:
SIBLMI (BII ENIET)	1. WS w Wide Store
	= 0 For No. 3 ESS
ADDRESS OF LAST WORD IN PHISICAL STORE HOTE 2)	 This address is the address of the last word in physical store. It may be equal to or larger than the last word of translation store. (See Figure 1, Note 10)
FIGURE 31C	The number of spare translation words is: the address of the last word in transla-
TSPARE (RTE BETRE) HUMBER OF SPARE TEMPORARY STORE WORDS (NOTE 4)	tion store (see Figure 1, Note 10) sinus the address of the first spare word in in translation store (see SPARES). This implies that the last word in transla- tion store can never be used.
ADDRESS OF FIRST SPARE WORD IN TEMPORARY STORE	 Heans spare "translation assignable" temporary store words.
FIGURE 31D	 Bits 4 to 7 of word 2 (Fig. 31D) are for the number of spare transla- tion words (MIGH BITS). See NOTE 3.
SPARES (MTI EMTAT) AUMDER OF SPARE TRANSLATICA WORDS (LOW RITS) MOTE 3	
ACCRESS OF FIRST SPARE WORD IN TRANSLATION STORE	

•

PA-38303 SECTION 800 FIGURE 32 WRITE PROTECT TABLE (BIL ERIBA) 11 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1 1 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 NOTES: 1. Nap of which 4x store blocks are write protected (16 words allowing 1024K). 0 - Writeable store 1 = Write protected If 4K is not provided, then bit is set

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PIGURE 33 TRAFFIC DATA

PIGURE 33A CLASS OF SERVICE

CLSRV [MII ENIRY

					100										
115	HAJ3	. 1 121	11		1	617	1	TLAB	1	413	1	HA30	1	0	0
	BAJ7	1		NAJ6		1		BAJ5		1		MAJQ			1
	88311	-		naJ 10				BAJ9		1	***	на зв			 2
	MAJ 15			8AJ14				na J 1 3		1		BAJ12			13
	MAJ 19			n aj 18				HAJ17	40-40-4	1		HAJ16		•••	9
	MAJ23			MAJ22				PAJ21				8AJ20			i 5
	MAJ27			MAJ26				MAJ25				BAJ24			 6
	MAJ 31			8AJ30				8AJ29				BAJ28			17
															i

FIGURE 33B INCOMING & INTRAOPPICE INTERCEPT BLCCK

IBLK (BTI ENTRY)

(See NCIES following Figure 33F)

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PA-38303 SECTION 800 PIGURE 33C NIGHTLY ROUTINE SCHEDULING ELCCH DSYBLE (871 ENTRY) 16 NOTE 1 FIGURE 33D TERMINAL USAGE IDENTIFIER (NOTE 7) (HIL ENTRY) 115 1/////12 115 114 E 17 (See NOTES following Figure 33F) ISSUE 3

FIGURE 338 SCHEDULE BLOCK

KEDBLK	(HTI ENTRY)	
NOTE 2		BUST
	HB7 HB6 HB5 HB4 HB3 HB2 HB1 HB0 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0	BUSY
	HR23 HR22 HR21 HR2C UR19 HF18 HF17 HF16	
		C SCHEDUI END
		с
		SCHEDUL
		MEEKTA
		SCHEDUL

(See MCTES following figure 331)

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PA-3H303 SECTION 800

FIGURE 33F TRAFFIC DATA HEALER WORDS

IRAFD (MII ENTRY) 801E 5 HOURS |-----FINUTES immunimmunimmunim _____ immunimmunimmuni HCURSCPB 013 immunimmunimm | SCH | LINGIN 1 0-----0 126 L----JECTE 3

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FIGURE 33 TRAFFIC DATA (continued)

NOTES:

1. In Figure 33C,

word references are: value of FUNCTION set by ODA are:

value of CHANNO set by ODA are:

00 00

0011 0011 0000 (note 6) 0000

6 * Unused 00 0000
2. In Figure 318, all 5 schedules have the same layout. The weekly schedule shows the beginning time. It ends one half hour later.

3. In Figure 31P, words 7-26 are beader words which control the printing of the traffic counts, of the three fields, NHB and FishTI are quiven predefined values by CLR and SCL is given predefined and default values by CLR. The default values are recent changeable by the REISCHED annuage for the beader words areted with *. Following are the values used up by CDA.

ROBE	WAHE	SCH	LENGIH	TYPE OF COURTS
7	16**	0	0	Starts table
8	14	0	16	Cuarter hour 45 ain. ago
9	14	0	16	Cuarter hour 30 ain. ago
10	14	1	16	Quarter hour 15 min. ago
11	14	0	16	Fresent Cuarter hour
12	1	2	1	Cycle count for busy hour
13	1	3	i	Cycle count for non-husy hour
14	1	4	1	Cycle count for dally
15	1	5	1	Cycle count for weekly
16	2	2+	8 €	Cffice totals
17	3	4	4	Division of revenue
18	4	0	0	Starts the groups (MLH, SVC, TRE)
				counts
19	5	0*	4	Freroute
20	6	0.0	5	Class of service
21	7	5 *	31	A-Link usage
22	8	5.0	3	E-Link usage
23	9	0+	16	Tersinal lite usage
24	15	6 .	6.3	Flant
25	16	0	6	AHA
26	0	0	c	Ends table

** indicates start of table, not AMA.

4. This table is searched by the program. (Figure 33F)

(continued)

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PIGURE 33 BOTES (continued)

5. Bightly routine is a schedule of sequential events. The events are:

1. Office record printout |2 hours and 15 sinutes before the HCBRS and MINUTES|

2. Daily printout of D, W & F schedules.

3. Busy-hour printout from tape of E schedule.

Bessage register printout.
 Set spare selection status bits.

6. Nightly schedule (includes update of translation file on tape and diagnostics).

6. The value of CHANNO for word 2 | Message Register| is Recent Changeable by the RC: REPT message.

7. This table [Figure 33D] is loaded by Recent Change only, and not by the ODA.

8. Set by the RC program, which subtracts 2 hours and 15 minutes from HOURS and HINUTES.

9. DATA CRCSS-REFERENCE AND DESCRIPTION

	DATA	1 INPUT	MESSAGE	1	F POS		DESCRIPTION
	AJO to 31	RCICLS	ICLS			- - 	The 32 major classes of service all essignable to the class of service registers. 100 mercine registers. 10011 class sestigned to a register. 10010 class sestigned to originating CLS Register 1 10010 class sestigned to originating CLS Register 2 10100 class sestigned to originating CLS Register 3 1011 class sestigned to originating CLS Register 3 1011 class sestigned to originating CLS Register 4 1011 class sesting to the control of the
F	I1 to 3	RC: INCP	RTI	-	-	-	PROUTE index Plax 3) counts are taken on the route indexes stored in IEIK only when accessed thru the 4-digit translator
8	80 to 23	RC:REPT	SCHED	-	-	-	
D	ED	RC:QH	DED	3400-1	-	133-34	= 1 - dedicated traffic channel
C	8	RC:QH	PAINT	2400-1	-	37-38	= 1 - print Q schedule on saintenance TTY
Q	r	BC: OR	THE	3400-1	-	35-36	= 1 - print C schedule on traffic TTF

[continued]

FIGURE 33 NOTES (continued)

10 DATA DESCRIPTION

DATA	DESCRIPTION
	00 = act done at all 01 = nightly routine function
CHANNO	Channel number data is printed out on
TEN	[Terminal equipment number being counted for usage
HOURS	Hour of begin of nightly routine in BCD (See Note 5)
HOURSOFF	(Hour of begin of office record in BCD (See Note 5,8)
MINUTES	Minutes of begin of nightly routine in BCC (See Note 5)
HINUTESCF	Fiftinutes of begin of office record in BCD (See Note 5,8)
BA EE	Solit code identifying the traffic measurement (See Note 3) 0 = Reserved (and measurement) 1 = Cycle Counts 1 = Cycle Counts 2 = Counts 3 = District of Revenue 4 = Counts 5 = Procounts 6 = Counts 7 = A link 8 = B link 9 = Reserved 11 = Reserved 12 = Reserved 13 = Reserved 14 = Counter 15 = Plant 16 = ABA 16 = ABA 17 = Counter 18 = Counter 18 = Counter 19 = Counter 10 = Counter 10 = Counter 11 = Counter 12 = Counter 13 = Counter 14 = Counter 15 = Counter 15 = Counter 16 = ABA 17 = Counter 17 = Counter 18 = Cou
SCH	Schedule the traffic resiscosont prints on (See Mote 3) = 0 not acheduled

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FIGURE 33 HOTES (continued)

10. DATA DESCRIPTION

DATA	DESCRIPTION	
LENGTH	Number of registers (words) associated with traffic measurement	
ITR	Trunk or line indicator	
1	0 = line	
	1 = trunk or service circuit	
GROUP		
NONBER	Trunk or service circuit group number being counted for usage.	
PERBEA		
NUMBER	Trunk or service circuit sember number being counted for usage.	

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PIGURE 34 SCAN LIST (MOTE 1)

(HTI ENTST) BYLINK CR CPESATOS RATE | 0 | |----------|--------SLCW SCAN BATE ROWS 28 TC 31 16 TC 27 3 * 0 IM I IN ISCANNERS I SCANNER O TEKSCAN ----- | RCWS 128 10 31 i IN (continued at right)

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FIGURE 34 (CCSTINUED)

NOTEST

-) 1. This scan list is these scan lists is over: a by-lish trank scan list for by-lish trushs; an operator trush scan list for operator trush; and a slow scan list for other trushs and service circuits. Scan points in the by-lish or operator scan list are examined every fost in intercept. The slow scan list is accamed every cycle of the base level.
- Three words per scan row one bit per sord per scan point. Bit = 1 scan points at rates specified.
- 3. n = Row 6 for service circuits and LIE trunk (rows 6-27).
- 4. a = 4 times scanner number + (row-28) for trunk circuits (rows 28-31, scanners 0-15).
- : 5. Bylink or operator = Bylink or operator scan points.
- 6. Operator " Operator scan points.
- 7. Slow scan = Slow scan points.
-) 8. Scan Rate Table for Trunks and Service Circuits

SERVICE CKT	WORD BYLINK CPERATOR	OR	OFERATOR		SLOW SCAN	NC NCBD
Service Ckts	1					
by Ckt Codes	i	i		i		
13,14	1	- 1		i	1 1	
15,16,18,19	!	- (- 1	i	x
15,10,18,19	!			- 1	1	X
Trunk Ckts by		- 1		- !	!	
Group data:	i	- 1				
EYLK	i x	i		i	:	
LTD	i	i		i	1	
EBS	1	i		i	i i	
SIG = 1	į X	i	I	i	- 1	
* 2	1 1	i	3	i	i	
# 3	1	- 1		i	1 i	
If none of	8	i		i	_ i	
the above	1	- 1		1	i	
conditions	1	i		i	i	
natch		- 1		- 1	x i	

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PIGORE 35G FRANES EQUIPPED HASK - MAINTENANCE

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PIGURE 358 BAIN STORE TYPE

NOTES:

1. DATA CROSS-REFERENCE AND DESCRIPTION

1			INERL	BESSAGE	1 25	S FCE	38	
		DATA	1	r				DESCRIPTION
- 1			1	1 KEARCRE				
- 1					ļ	1		
- 1	PETS		[RC: CFFIC	EINETS	1 -	1 -	1 -	Defines the number of network control frames
- 1			1	1	1	1	1	0 = Control frame 0 - network frames 1-7
- 1			1	1	1	1		1 1 = Control frame 1 - network frames 8-15

2. DATA DESCRIPTION

DATA	DESCRIPTION
BOSCAN	Number of last logical scanner that contains scan points assigned to by-link and/or operator trunks
LCGSCAN	last equipped logical scanner number
HTSH	Highest equipped network controller number
29	Peripheral decoder of ITA
PDE	Peripheral decoder toard is equipped
CPBITS	Each bit indicates which metworks are equipped for access by call processing. Pit 0 is always set and indicates the presence of Master Scanner.
MIDITS	Each bit indicates which retworks are equipped for access by maintenance. Fit 0 is always set and indicates the presence of haster Scanner.
TRIS	Triplet of Distributor triplet Address (CTA) (Not used in EGPT_FD table)
PPD	Peripheral fulse distributor of CTA.
n (n)	0 = Hain store n is equipped with JI-2 packs (4K EIF memory devices) 1 = Hain store n is equipped with JI-16 tacks 16K EIF memory devices Each main store in 25fk.